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OF THE  
WATER COMMISSIONER

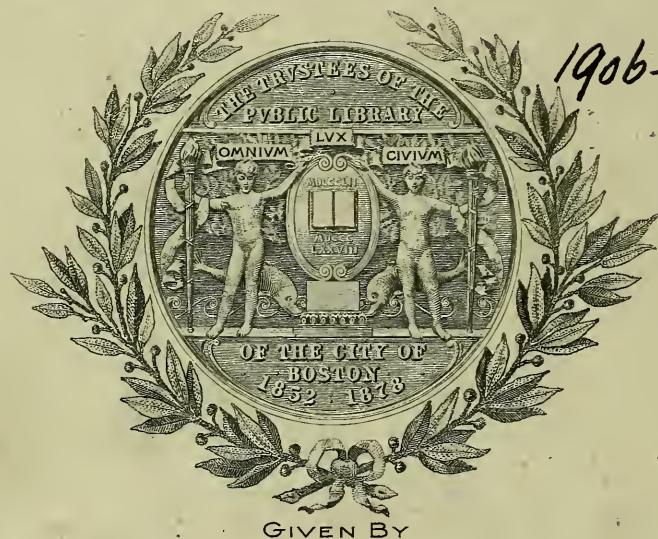


FOR THE YEAR ENDING

JANUARY 31, 1907

N<sup>o</sup> 6355.52

1906-'07



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# TWELFTH ANNUAL REPORT

OF THE

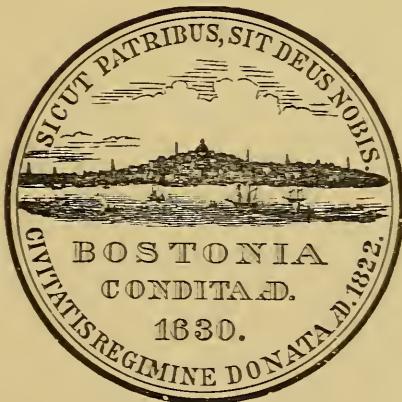
# WATER COMMISSIONER

FOR THE

YEAR ENDING JANUARY 31, 1907

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Printed for the Department



BOSTON  
MUNICIPAL PRINTING OFFICE  
1907

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Boston Water Commissioner  
July 13 1906

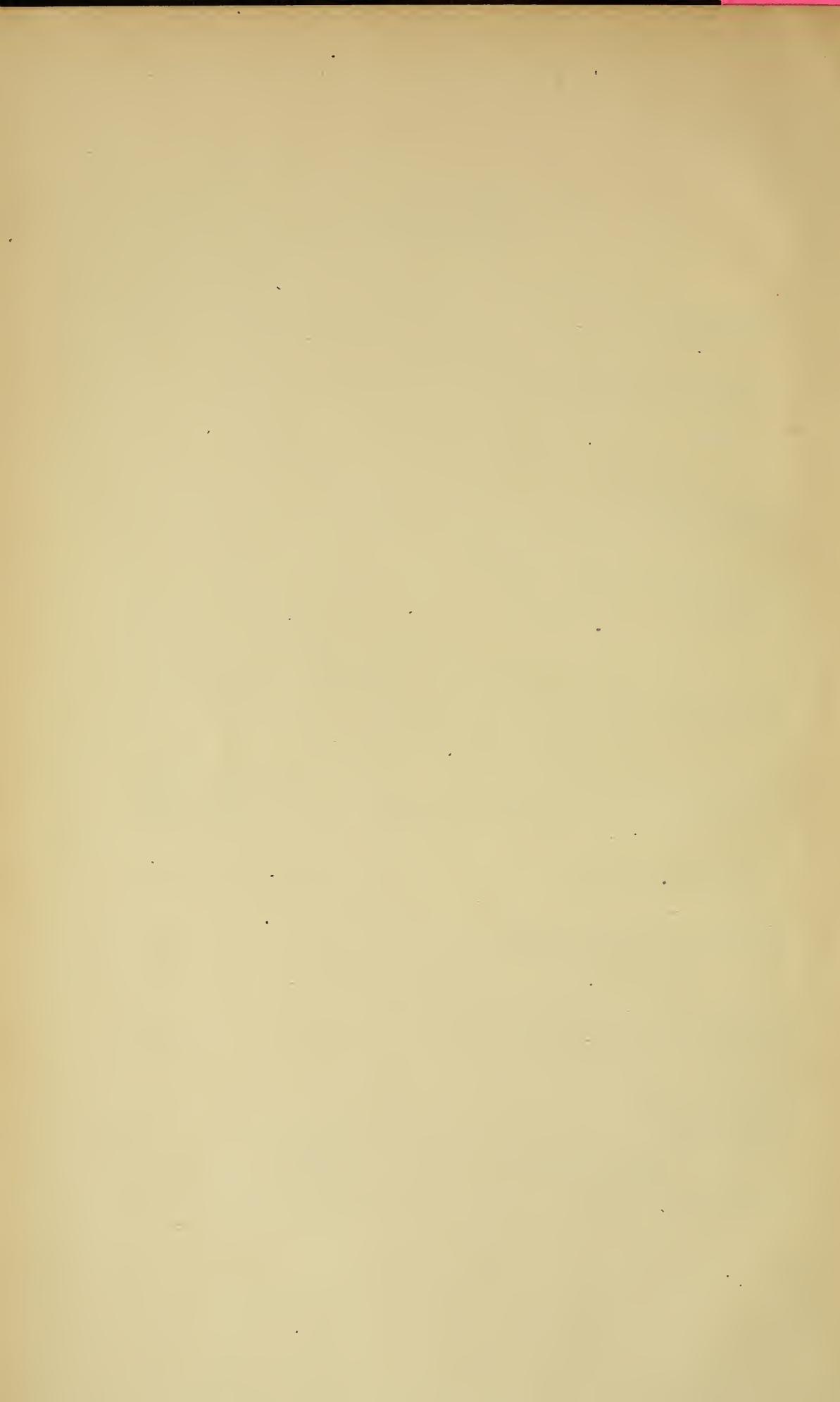
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W. H. C. 1906-9

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OFFICE OF THE WATER COMMISSIONER,  
CITY HALL, BOSTON, February 1, 1907.

HON. JOHN F. FITZGERALD,

*Mayor of the City of Boston:*

SIR,—I submit herewith the twelfth annual report of the doings of the Water Department, covering the year ending January 31, 1907.

The receipts and disbursements of the department for the year were as follows:

Total receipts from all sources . . . . .	\$2,971,845 10
Balance at beginning of year, loan,      \$17,540 97	
Balance at beginning of year, tax levy,    9,460 67	
	27,001 64
Total . . . . .	\$2,998,846 74
Total expenditures for all purposes . . . . .	2,927,741 45
Balance at end of the year, loan,       \$16,365 90	
Balance at end of the year, tax levy,    54,739 39	
	\$71,105 29

## TOTAL RECEIPTS OF THE YEAR BY SOURCES.

Sales of water . . . . .	\$2,471,726	19
Service, elevator, fire, motor and stand pipes, and repairs, labor, materials, etc. . . . .	57,862	26
City's proportion of entrance fees from other cities and towns for use of Metropolitan water system,	15,886	82
Fees for summonses . . . . .	1,669	92
Shutting off and letting on water, on account of repairs . . . . .	1,651	50
Shutting off and letting on water, on account of non-payment of bills . . . . .	1,332	00
Use of West Roxbury pumping plant . . . . .	773	04
Interest on deposits . . . . .	581	37
Board of City Engineer's horse . . . . .	312	00
Difference on cost of laying main pipes . . . . .	40	00
Use of land . . . . .	10	00
	<hr/>	
	\$2,551,845	10
Credited from taxes . . . . .	120,000	00
Loan (extension of mains) . . . . .	300,000	00
	<hr/>	
	\$2,971,845	10
	<hr/>	

## EXPENDITURES.

Current expenses . . . . .	\$544,769	54
Metropolitan water assessment . . . . .	1,822,556	33
Interest on funded debt . . . . .	257,764	85
Extension of mains, etc. (from loans) . . . . .	301,175	07
Refunded water rates . . . . .	1,475	66
	<hr/>	
	\$2,927,741	45
	<hr/>	

For detailed account of expenditures, condition of water debt, etc., see statements annexed.

Reports of work performed in the Income and Distribution Divisions and the Engineering Department will be found in the appendices annexed hereto.

Respectfully,

WILLIAM J. WELCH,  
*Water Commissioner.*

Details of expenditures under the appropriation for the current expenses for the fiscal year ending January 31, 1907.  
(From revenue.)

## Salaries and wages:

Eugene S. Sullivan, commissioner, to January 11, 1906, inclusive . . . . .	\$152 78
William J. Welch, commissioner, from March 1, 1906 . . . . .	4,166 67
	<hr/>
	\$4,319 45

## Assistant commissioners:

Isaac Rosnosky . . . . .	\$3,000 00
John J. Leahy, to March 1, 1906 . . . . .	500 00
Joseph J. Norton, from March 1, 1906 . . . . .	2,500 00
James P. Lennon, from March 1, 1906 . . . . .	<hr/> 2,500 00
	8,500 00

Walter E. Swan, chief clerk and secretary, to September 10, 1906 . . . . .	\$2,075 00
Walter E. Swan, chief clerk, from September 10, 1906 . . . . .	925 00

John J. Feneno, secretary, from September 10, 1906 . . . . .	<hr/> 3,000 00
Employees . . . . .	938 45
	<hr/> 376,536 81

Water pipes and other castings . . . . .	<hr/> \$393,294 71
	52,061 40

## Stable:

Hay, grain, straw . . . . .	\$7,689 83
Vehicles and repairs . . . . .	3,745 61
Horseshoeing, veterinary service, etc. . . . .	3,001 48
Horses, purchase of . . . . .	1,575 00
Harnesses and repairs, etc.. . . . .	<hr/> 1,416 14
	17,428 06

Tools, machinery, and repairs of same, iron, steel, hardware and small supplies . . . . .	<hr/> 11,888 53
Lead and lead pipe . . . . .	9,710 03

## Meters:

New meters . . . . .	\$6,920 50
Repairs and extra parts . . . . .	<hr/> 752 97

Lumber . . . . .	<hr/> 7,673 47
Travelling expenses and transportation of employees . . . . .	6,361 41
Repairs and alterations of buildings, streets and structures, Blasting and excavating pipe trenches . . . . .	5,229 15
Printing . . . . .	4,973 58
Fuel . . . . .	4,683 98
Telephones . . . . .	3,853 49
Stationery, postage, etc.. . . . .	2,445 96
Rents . . . . .	1,671 95
Ice for drinking fountains . . . . .	1,352 59
Teaming and freights . . . . .	1,200 00
Salt . . . . .	1,126 48
Gravel and crushed stone . . . . .	864 94
Cement and sand . . . . .	630 00
Oils . . . . .	595 10
	566 28
	<hr/> 559 38

Carried forward . . . . .	\$528,170 49
---------------------------	--------------

<i>Brought forward</i>	.	.	.	.	.	.	.	.	\$528,170	49
Gas	.	.	.	.	.	.	.	.	350	78
Bricks	.	.	.	.	.	.	.	.	296	60
Furniture	.	.	.	.	.	.	.	.	262	73
Taxes	.	.	.	.	.	.	.	.	256	50
Advertising	.	.	.	.	.	.	.	.	220	55
Professional and expert services	.	.	.	.	.	.	.	.	156	00
Waterproof clothing	.	.	.	.	.	.	.	.	124	65
Ice for office	.	.	.	.	.	.	.	.	84	60
Insurance	.	.	.	.	.	.	.	.	80	00
Salt hay	.	.	.	.	.	.	.	.	70	11
Commonwealth of Massachusetts for displacement of tide-water	.	.	.	.	.	.	.	.	59	24
Premium on surety bonds	.	.	.	.	.	.	.	.	45	00
Drain pipe	.	.	.	.	.	.	.	.	38	96
Recording papers	.	.	.	.	.	.	.	.	30	00
Damages	.	.	.	.	.	.	.	.	\$530,246	21
									14,523	33
									\$544,769	54

Details of expenditures under the appropriation for Extension of Mains, etc., for the fiscal year ending January 31, 1907. (From loan).

Employees	.	.	.	.	.	.	\$128,651	81
Water pipes and other castings	.	.	.	.	.	.	107,092	38
Blasting and excavating pipe trenches and layng water pipes	.	.	.	.	.	.	30,325	96
Lead and lead pipe	.	.	.	.	.	.	13,584	38
Teaming and freights	.	.	.	.	.	.	5,434	40
Repairs of streets and alterations, structures, etc.	.	.	.	.	.	.	5,353	42
Lumber	.	.	.	.	.	.	5,085	33
Tools, iron, steel and hardware	.	.	.	.	.	.	1,845	30
Transportation of employees	.	.	.	.	.	.	1,692	00
Gravel and crushed stone	.	.	.	.	.	.	927	03
Fuel	.	.	.	.	.	.	617	34
Oils	.	.	.	.	.	.	197	56
Bricks	.	.	.	.	.	.	192	40
Cement and sand	.	.	.	.	.	.	143	20
Waterproof clothing	.	.	.	.	.	.	29	40
Drain pipe	.	.	.	.	.	.	3	16
							\$301,175	07

There was also expended by the Water Department, under an appropriation of \$5,000, from the Reserve Fund, for ice for drinking fountains (order of City Council, approved June 20, 1906):

Ice . . . . .	\$4,927 52
Inspection . . . . .	50 00
Advertising . . . . .	22 48
	<hr/>
	\$5,000 00

COST OF CONSTRUCTION AND CONDITION OF THE  
WATER DEBT.

Cost of construction of Water Works to February 1, 1906 . . . . .	\$16,560,884 94
Cost of construction of Water Works to February 1, 1907 . . . . .	16,854,619 62
Increase during the year . . . . .	<u>\$293,734 68</u>
Stock on hand February 1, 1906 . . . . .	\$112,537 72
Stock on hand February 1, 1907 . . . . .	141,160 93
Increase during the year . . . . .	<u>\$28,623 21</u>
The outstanding Water Loans February 1, 1906, were . .	\$6,671,250 00
The outstanding Water Loans February 1, 1907, were . .	4,562,500 00
Decrease during the year . . . . .	<u>\$2,108,750 00</u>
The Water Sinking-Fund February 1, 1906, was . . . .	\$5,943,222 39
The Water Sinking-Fund February 1, 1907, was . . . .	3,697,913 53
Decrease during the year . . . . .	<u>\$2,245,308 86</u>
Net Water Debt February 1, 1906 . . . . .	\$728,027 61
Net Water Debt February 1, 1907 . . . . .	864,586 47
Increase during the year . . . . .	<u>\$136,558 86</u>

The outstanding Water Loans on February 1, 1907, were as follows:

Loans.	Date of Maturity.	Amount.
6 per cent. Currency Loan, Due April, 1907 . . . . .		\$4,000 00
6 " " " " July, 1907 . . . . .		1,000 00
5 " " " " Oct., 1907 . . . . .		1,000 00
5 " " " " April, 1908 . . . . .		10,000 00
4 " " " " July, 1909 . . . . .		67,000 00
4½ " " " " Oct., 1909 . . . . .		268,000 00
4 " " " " April, 1910 . . . . .		277,000 00
4 " " " " April, 1912 . . . . .		324,000 00
4 " " " " Oct., 1913 . . . . .		50,000 00
4 " " " " Jan., 1914 . . . . .		459,000 00
4 " " " " April, 1914 . . . . .		9,500 00
4 " " " " Oct., 1914 . . . . .		10,000 00
4 " " " " April, 1915 . . . . .		32,700 00
4 " " " " Oct., 1915 . . . . .		17,000 00
4 " " " " Jan., 1916 . . . . .		8,000 00
4 " " " " April, 1916 . . . . .		18,500 00
4 " " " " Oct., 1916 . . . . .		11,300 00
4 " " " " Jan., 1917 . . . . .		8,000 00
3½ " " " " April, 1917 . . . . .		275,000 00
4 " " " " April, 1917 . . . . .		6,000 00
4 " " " " Oct., 1917 . . . . .		158,700 00
4 " " " " Jan., 1918 . . . . .		13,000 00
<i>Carried forward</i> . . . . .		\$2,028,700 00

Loans.	Date of Maturity.	Amount.
<i>Brought forward</i> . . . . .	.	\$2,028,700 00
4 per cent. Loan, Due April, 1918	. . . . .	300 00
3½ " " " July, 1918	. . . . .	100,000 00
4 " " " Oct., 1918	. . . . .	95,000 00
4 " " " April, 1919	. . . . .	200,000 00
3½ " " " Oct., 1919	. . . . .	2,000 00
4 " " " Oct., 1919	. . . . .	190,000 00
3½ " " " Nov., 1919	. . . . .	107,000 00
3½ " " " Jan., 1920	. . . . .	70,000 00
4 " " " Oct., 1920	. . . . .	181,500 00
4 " " " April, 1921	. . . . .	100,000 00
4 " " " Oct., 1921	. . . . .	140,500 00
4 " " " Jan., 1922	. . . . .	100,000 00
4 " " " April, 1922	. . . . .	75,000 00
4 " " " Oct., 1922	. . . . .	193,000 00
4 " " " Oct., 1923	. . . . .	18,275 00
4 " " " Oct., 1924	. . . . .	526,225 00
3½ " " " Oct., 1927	. . . . .	25,000 00
3½ " " " July, 1929	. . . . .	410,000 00
Total . . . . .	.	\$4,562,500 00

## SUMMARY.

3½ per cent. Loans -	. . . . .	\$989,000 00
4 " " "	. . . . .	3,289,500 00
4½ " " "	. . . . .	268,000 00
5 " " Currency Loans	. . . . .	11,000 00
6 " " Loans	. . . . .	5,000 00
Total . . . . .	.	\$4,562,500 00

## Cochituate Water Sinking-Fund Receipts.

[SINCE THE ESTABLISHMENT OF THE BOARD OF SINKING-FUND COMMISSIONERS IN 1871.]

## WATER DEPARTMENT.

Cochituate Water Sinking-Fund Receipts.—Concluded

YEAR.	From Tax Levy of City Income.	Interest on Investments.	Interest on Bank Deposits.	Water Rates, etc.	Premiums on Loans	Other Sources.	Totals.
<i>Brought forward.</i>	\$2,037,556 28	\$1,639,327 28	\$65,625 64	\$1,681,890 69	.....	\$24,607 86	\$5,446,068 35
<b>1887-88.</b>	.....	199,883 90	4,178 16	221,620 11	.....	.....	425,682 17
<b>1888-89.</b>	.....	213,048 22	8,958 69	256,013 57	\$11,552 50	.....	489,572 98
<b>1889-90.</b>	.....	223,000 83	11,730 60	300,903 00	36,092 50	.....	576,726 93
<b>1890-91.</b>	.....	229,509 17	29,763 94	242,675 22	36,530 00	.....	538,478 33
<b>1891-92.</b>	.....	175,808 33	22,560 16	275,014 05	.....	78,865 00	552,247 54
<b>1892-93.</b>	.....	260,506 20	30,148 34	240,435 00	16,413 50	.....	547,503 04
<b>1893-94.</b>	.....	298,224 44	18,133 03	299,467 27	14,621 75	.....	630,446 49
<b>1894-95.</b>	.....	312,332 05	18,524 22	297,518 29	.....	9,894 12	638,268 68
<b>1895-96.</b>	.....	378,819 55	5,892 29	205,791 00	64,690 00	.....	655,192 84
<b>1896-97.</b>	.....	408,840 02	5,225 08	194,740 00	.....	616 50	604,421 60
<b>1897-98.</b>	.....	421,928 45	8,337 21	193,395 00	8,833 50	15,877 86	648,372 02
<b>1898-99.</b>	.....	417,142 02	5,806 85	193,395 00	.....	8,016 00	624,359 87
<b>1899-1900.</b>	.....	383,662 97	7,632 45	209,834 00	29,835 70	2,148 90	633,104 02
<b>1900-1901.</b>	.....	397,985 35	15,948 83	206,489 00	.....	.....	620,423 18
<b>1901-1902.</b>	.....	325,030 96	31,199 25	.....	.....	* 609,000 00	965,230 21
<b>1902-1903.</b>	.....	313,707 65	37,267 28	.....	.....	.....	351,004 93
<b>1903-1904.</b>	.....	143,255 27	8,318 82	.....	.....	282 10	157,856 19
<b>1904-1905.</b>	.....	260,239 40	5,447 25	.....	.....	.....	265,786 65
<b>1905-1906.</b>	.....	242,176 39	13,015 36	.....	.....	.....	255,191 75
<b>1906-1907.</b>	.....	171,618 65	16,038 95	.....	.....	.....	187,657 60
	<b>\$2,037,556 28</b>	<b>\$7,422,047 70</b>	<b>\$369,882 40</b>	<b>\$5,016,171 20</b>	<b>\$218,569 45</b>	<b>\$749,308 34</b>	<b>\$15,813,535 37</b>

\* Water Works Fund.

**Cochituate Water Debt, Gross and Net.**

At the Close of Each Fiscal Year.

FISCAL YEAR.	Gross Debt.	Sinking-funds.	Net Debt.
1847-48.....	\$2,129,056 32		\$2,129,056 32
1848-49.....	3,787,328 98		3,787,328 98
1849-50.....	4,463,205 56		4,463,205 56
1850-51.....	4,955,613 51		4,955,613 51
1851-52.....	5,209,223 26		5,209,223 26
1852-53.....	5,972,976 11		5,972,976 11
1853-54.....	5,432,261 11		5,432,261 11
1854-55.....	5,403,961 11		5,403,961 11
1855-56.....	5,230,961 11		5,230,961 11
1856-57.....	5,031,961 11		5,031,961 11
1857-58.....	4,724,961 11		4,724,961 11
1858-59.....	4,754,461 11		4,754,461 11
1859-60.....	3,846,211 11		3,846,211 11
1860-61.....	3,455,211 11		3,455,211 11
1861-62.....	3,012,711 11		3,012,711 11
1862-63.....	2,992,711 11		2,992,711 11
1863-64.....	2,992,711 11		2,992,711 11
1864-65.....	2,942,711 11		2,942,711 11
1865-66.....	3,152,711 11		3,152,711 11
1866-67.....	3,370,711 11		3,370,711 11
1867-68.....	3,867,711 11		3,867,711 11
1868-69.....	5,107,711 11		5,107,711 11
1869-70.....	5,731,711 11		5,731,711 11
1870-71.....	6,482,711 11	\$1,100,000 00	5,382,711 11
1871-72.....	6,812,711 11	1,185,049 67	5,627,661 44
1872-73.....	6,912,711 11	1,268,234 97	5,644,476 14
1873-74.....	7,863,711 11	1,372,952 62	6,490,757 49
1874-75.....	8,123,711 11	1,533,890 28	6,589,820 83
1875-76.....	9,735,711 11	1,560,917 83	8,174,793 28
1876-77.....	11,548,711 11	1,709,492 60	9,839,218 51
1877-78.....	11,545,273 98	2,043,764 73	9,501,509 25
1878-79.....	11,753,273 98	2,143,847 85	9,609,426 18
1879-80.....	11,697,273 98	1,771,692 92	9,925,581 06
1880-81.....	11,631,273 98	1,989,300 88	9,641,973 10
1881-82.....	11,631,273 98	2,281,857 89	9,349,416 09
1882-83.....	11,955,273 98	2,607,768 46	9,347,505 52
1883-84.....	12,882,273 98	2,746,505 58	10,185,768 40
1884-85.....	13,045,473 98	3,106,323 82	9,939,150 16
1885-86.....	13,491,473 98	3,385,201 26	10,106,272 72
1886-87.....	14,142,273 98	3,947,616 92	10,194,657 06
1887-88.....	14,741,273 98	4,373,304 09	10,367,969 89
1888-89.....	14,941,273 98	4,864,092 54	10,077,181 44
1889-90.....	15,696,273 98	5,440,819 47	10,255,454 51
1890-91.....	16,267,773 98	5,979,297 80	10,288,476 18
1891-92.....	16,423,773 98	6,471,545 34	9,952,228 64
1892-93.....	16,758,773 98	7,019,058 38	9,739,715 60
1893-94.....	17,055,273 98	7,649,504 87	9,405,769 11
1894-95.....	17,761,273 98	8,444,773 55	9,316,500 43
1895-96.....	18,261,273 98	9,099,966 39	9,161,307 59
1896-97.....	18,261,273 98	9,704,387 99	8,556,885 39
1897-98.....	17,911,273 98	9,852,760 01	8,058,513 97
1898-99.....	17,121,273 98	9,487,119 88	7,634,154 10
1899-1900.....	17,306,273 98	9,870,223 90	7,436,050 08
1900-1901.....	11,960,273 98	10,144,647 08	1,815,626 90
1901-1902.....	11,351,917 28	10,422,449 77	929,467 51
1902-1903.....	9,501,000 00	8,893,615 94	607,384 06
1903-1904.....	8,227,000 00	7,337,902 79	889,097 21
1904-1905.....	8,224,000 00	7,600,689 44	623,310 56
1905-1906.....	6,671,250 00	5,943,222 39	728,027 61
1906-1907.....	4,562,500 00	3,697,913 53	864,586 47

<sup>1</sup>No account taken of amounts borrowed temporarily from 1846 to 1852 and afterwards funded by the issue of water bonds that figure in this statement.

**Contracts in Excess of \$1,000 Made and Pending during Year Commencing February 1, 1906, and ending January 31, 1907.**

*Contracts marked thus (\*) are completed.*

DATE.	CONTRACTORS.	WORK.	AMOUNT.	PAID ON CONTRACT.		
				Previous Year.	Year 1906-1907.	Total.
1905.						
* Feb. 24,	J. H. McCafferty & Co...{	Composition castings for year ending January 31, 1906.....{	{ No. 1 @ 20 $\frac{1}{10}$ cents per pound.....{ No. 2 @ 19 $\frac{1}{10}$ " ".....{ No. 3 @ 15 " ".....{ .....{	\$5,064 07	\$2,218 08	\$7,282 15
* Mar. 1,	Foxboro Foundry Co...{	Miscellaneous iron castings for year ending January 31, 1906.....{	{ No. 1 @ 2 $\frac{7}{10}$ cents per pound.....{ No. 2 @ 2 $\frac{1}{10}$ " ".....{ .....{	19,651 63	8,256 28	27,907 91
* Mar. 1,	Hugh Nawn Contracting Co.....{	Planning water pipes and materials for year ending January 31, 1906.....{	{ 85 cents per ton, 2,000 pounds, for short haul.....{ \$1.45 per ton, 2,000 pounds, for long haul.....{ .....{	2,472 56	284 35	2,756 91
* Mar. 22,	United States Cast Iron Pipe and Foundry Co..{	15 tons 3-inch pipe, B.....{ 30 " 4-inch ".....{ 50 " 6-inch ".....{ 175 " 8-inch ".....{ 290 " 10-inch ".....{ 850 " 12-inch ".....{ 150 " 16-inch ".....{ 75 " 24-inch ".....{ 350 " 30-inch ".....{ 15 " special castings.....{ .....{	{ \$29.70 per ton, 2,000 pounds.....{ \$27.20 ".....{ \$26.20 ".....{ \$26.20 ".....{ \$25.20 ".....{ \$25.20 ".....{ \$25.20 ".....{ \$24.70 ".....{ \$24.70 ".....{ \$52.50 ".....{ .....{	38,486 72	15,299 94	53,786 66
* Dec. 26,	Charles A. Haskin.....{	Placing in position and securing water pipes in tunnel, and shafts at Congress-street bridge.....{	{ \$1,960.....{ .....{	.....{	1,960 00	1,960 00
* Dec. 30,	United States Cast Iron Pipe and Foundry Co..{	50 tons 16-inch pipe, B.....{ .....{	{ \$28.70 per ton, 2,000 pounds.....{ .....{	.....{	1,468 67	1,468 67

## WATER DEPARTMENT.

11

1906.	Mar. 19,	Hugh Navn Contracting Co. ....	{ Teaming water pipes and materials for year ending January 31, 1907.....	{ \$5 cents per ton, 2,000 pounds for short haul.....	3,294 69	3,294 69
	Apr. 9,	Foxboro Foundry Co. ....	{ Miscellaneous iron castings for year ending January 31, 1907.....	{ No. 1 @ 2 $\frac{84}{100}$ cents per pound.....	20,313 96	20,313 96
* Apr. 10,	Collin Valve Co. ....	{ 4 30-Inch valves.....	{ No. 2 @ 2 $\frac{75}{100}$ cents per pound.....	4,897 00	4,897 00	
* Apr. 14,	J. H. McCafferty & Co. ....	{ 4 36-inch " .....	{ \$507 each.....			
		{ Composition castings for year ending January 31, 1907.....	{ 721 " .....			
		{ 5 tons 3-inch pipe, B.....	{ No. 1 @ 25 cents per pound.....			
		{ 5 " 4-inch " .....	{ No. 2 @ 25½ " .....			
		{ 70 " 6-inch " .....	{ No. 3 @ 20 " .....			
		{ 300 " 8-inch " .....				
		{ 200 " 10-inch " .....				
		{ 950 " 12-inch " .....				
		{ 375 " 16-inch " .....				
		{ 150 " 24-inch " .....				
		{ 100 " 30-inch " .....				
		{ 150 " 36-inch " .....				
		{ 1,620 " 48-inch " .....				
		{ 75 " special castings.....				
			{ \$30.70 per ton, 2,000 pounds.....			
			{ \$30.70 " .....			
			{ \$30.70 " .....			
			{ \$29.70 " .....			
			{ \$29.70 " .....			
			{ \$29.70 " .....			
			{ \$28.70 " .....			
			{ \$28.70 " .....			
			{ \$28.70 " .....			
			{ \$67.50 " .....			
		{ Excavating, placing pipes in position for joining, and backfilling trench in Mt. Vernon-street extension, Dorchester.....	{ 50 cents per linear foot .....			
		* June 12, Suffolk Contracting Co. ....				
		* June 20, Independent Ice Co. ....	{ Furnishing ice for public drinking fountains in City Proper, East Boston and Charlestown for season of 1906.....	1,126 48	1,126 48	
		* June 20, Hygeia Ice Co. ....	{ Furnishing ice for public drinking fountains in South Boston, West Roxbury and Roxbury for season of 1906.....	.....	2	

<sup>1</sup> \$3,063.02 additional paid from special appropriation.

<sup>2</sup> \$1,834.50 paid from special appropriation.

**Contracts in Excess of \$1,000 Made and Pending during Year Commencing February 1, 1906, and ending January 31, 1907.—Concluded.**

*Contracts marked thus (\*) are completed.*

DATE.	CONTRACTORS.	WORK.	AMOUNT.	PAID ON CONTRACT.		
				Previous Year.	Year 1906-1907.	Total.
1906.						
*June 29,	D. F. O'Connell.....	{ Excavating, lowering pipes, etc., into trench and refilling same in Rockford and Clifton streets, Roxbury.....	{ 75 cents per linear foot.....		\$1,089 00	\$1,089 00
*July 25,	William H. Glenn.....	{ Trench work, etc., for relaying main in Saratoga street, East Boston, between Meridian and Brooks streets .....	{ 75 cents per linear foot.....	1,256 00	1,256 00	
*July 31,	John Merino.....	{ Trench work, etc., for laying pipes in Codman Park and Codman Hill st., Roxbury,.....	{ 75 cents per linear foot of trench.. \$4 per cubic yard for blasting....	.....	1,559 13	1,559 13
*Aug. 15,	Suffolk Contracting Co..	{ Trench work, etc., for laying pipes in Saratoga street, East Boston.....	{ 75 cents per linear foot of trench.. \$4 per cubic yard for blasting....	.....	1,860 10	1,860 10
*Aug. 29,	James L. Bryne & Co....	{ Laying line of 12-in. water pipe with hydrants, gates, etc., through Boston & Maine Railroad freight yard No. 19, near Rutherford avenue, Charlestown .....	{ \$1 per linear foot of trench.....	.....	6,777 62	6,777 62
Sept. 1,	Cahill Construction Co...	{ Water pipe trestle and tender guard, Fort Point channel at Congress street.....	{ \$6,983 00.....	.....	.....	.....
Oct. 18,	Trimount Construction Co.....	{ Trench work, etc., for laying pipes in Bremen street, between Putnam and Bennington streets, East Boston .....	{ 75 cents per linear foot of trench.. \$4 per cubic yard for blasting....	.....	855 90	855 90
Nov. 6,	Suffolk Contracting Co..	{ Trench work, etc., for relaying pipes in Evans street, between Milton avenue and Capen street, Dorchester.....	{ 75 cents per linear foot of pipe laid, \$4 per cubic yard for blasting....	.....	999 05	999 05

Nov. 10,	Bryne Contracting Co. . . . .	{ Laying line of 48-in. water pipe in Longwood avenue, Roxbury, between St. Alphonsus street and Brookline avenue . . . . .	<table border="0"> <tr> <td style="vertical-align: top;">{ \$1.80 per linear foot for trench work and laying pipe.....</td><td rowspan="2" style="vertical-align: middle; font-size: 2em;"> </td><td rowspan="2">3,724 16</td></tr> <tr> <td>\$5 per cubic yard for rock excavation.....</td></tr> </table> <table border="0"> <tr> <td style="vertical-align: top;">17 cents per linear foot for resetting edgestones, including all incidentals.....</td><td rowspan="2" style="vertical-align: middle; font-size: 2em;"> </td><td rowspan="2">3,724 16</td></tr> <tr> <td>50 cents per square yard for repaving and resetting crosswalks, including all incidentals .....</td></tr> </table>	{ \$1.80 per linear foot for trench work and laying pipe.....		3,724 16	\$5 per cubic yard for rock excavation.....	17 cents per linear foot for resetting edgestones, including all incidentals.....		3,724 16	50 cents per square yard for repaving and resetting crosswalks, including all incidentals .....
{ \$1.80 per linear foot for trench work and laying pipe.....		3,724 16									
\$5 per cubic yard for rock excavation.....											
17 cents per linear foot for resetting edgestones, including all incidentals.....		3,724 16									
50 cents per square yard for repaving and resetting crosswalks, including all incidentals .....											
Nov. 21, { Warren Foundry and Machine Co. .... . . . .											
Nov. 22,	Robert Eagar. .... . . . .	{ Laying line of 48-inch water pipe in Prentiss and Parker streets and in Longwood avenue from Columbus avenue to St. Alphonsus street. .... . . . .	<table border="0"> <tr> <td style="vertical-align: top;">{ \$1.80 per linear foot for trench work and laying pipe.....</td><td rowspan="2" style="vertical-align: middle; font-size: 2em;"> </td><td rowspan="2">3,724 16</td></tr> <tr> <td>\$5 per cubic yard for rock excavation.....</td></tr> </table> <table border="0"> <tr> <td style="vertical-align: top;">17 cents per linear foot for resetting edgestones, including all incidentals.....</td><td rowspan="2" style="vertical-align: middle; font-size: 2em;"> </td><td rowspan="2">3,724 16</td></tr> <tr> <td>50 cents per square yard for repaving and resetting crosswalks, including all incidentals .....</td></tr> </table>	{ \$1.80 per linear foot for trench work and laying pipe.....		3,724 16	\$5 per cubic yard for rock excavation.....	17 cents per linear foot for resetting edgestones, including all incidentals.....		3,724 16	50 cents per square yard for repaving and resetting crosswalks, including all incidentals .....
{ \$1.80 per linear foot for trench work and laying pipe.....		3,724 16									
\$5 per cubic yard for rock excavation.....											
17 cents per linear foot for resetting edgestones, including all incidentals.....		3,724 16									
50 cents per square yard for repaving and resetting crosswalks, including all incidentals .....											

## REPORT OF INCOME DIVISION.

OFFICE OF GENERAL SUPERINTENDENT,  
CITY HALL, BOSTON, February 1, 1907.

WILLIAM J. WELCH, Esq.,  
*Water Commissioner:*

DEAR SIR,— I submit herewith the annual report of the Income Division, Water Department. The report of the Meter Service Division covers the financial year ending January 31, 1907; the remainder of the report is rendered for the calendar year ending December 31, 1906—it being impracticable, owing to the nature of our accounts, to render it for the financial year.

Respectfully submitted,

J. H. CALDWELL,  
*General Superintendent Income Division.*

Table I.

*Statement of Water Rates, January 31, 1907.*

ACCOUNT OF YEAR.	Amount Assessed.	Amount Abated.	Amount Collected.	Balance Outstanding.
1894.....	\$2,163,625 70	\$51,619 69	\$2,112,006 01	.....
1895.....	2,226,519 08	55,510 53	2,211,008 55	.....
1896.....	2,568,246 04	* 95,162 39	2,473,083 65	.....
1897.....	2,630,413 37	58,864 09	2,576,549 28	.....
1898.....	2,342,804 58	† 235,414 43	2,107,390 15	.....
1899.....	2,414,731 72	† 258,449 66	2,156,282 06	.....
1900.....	2,197,026 64	46,873 45	2,150,153 19	.....
1901.....	2,264,845 26	46,713 28	2,218,131 98	.....
1902.....	2,327,926 31	43,706 89	2,283,986 22	\$233 20
1903.....	2,386,423 02	57,707 76	2,327,947 71	767 55
1904.....	2,391,723 51	38,290 92	2,352,303 09	1,129 50
1905.....	2,446,959 14	36,093 08	2,410,576 36	289 70
1906.....	2,522,862 85	19,092 83	2,463,785 85	39,984 17
1907.....	1,325,682 08	1,796 10	138,389 37	1,185,496 61

Above amounts for years 1894, 1895, 1896 and 1897 include both Cochituate and Mystic supply accounts. The contracts to supply Chelsea, Somerville and Everett with Mystic Water were abrogated by the Metropolitan Water Act of January 1, 1898.

\*This amount includes certain city department accounts, abated by order of the Mayor.

†These amounts include abatements of city department accounts, under order of the City Council, approved by the Mayor on March 5, 1900, said order also abolishing all charges for water used by city departments.

**Table II.***Number of Classified Water Takers during 1906.*

	Number.
By annual rates.....	95,085
By meter rates.....	5,407
City supplies of all kinds.....	9,343
Total.....	109,835

**Table III.***Kind and Number of Fixtures in use December, 1906.*

	Number.
Bath-tubs.....	87,016
Bowls.....	124,024
Foot-tubs.....	327
Sinks.....	189,645
Taps.....	31,960
Urinals, automatic.....	4,867
“ otherwise.....	561
Wash-tubs.....	140,431
Water-closets.....	184,358
Total fixtures.....	763,189

Table IV.

Water at Annual Rates.

CLASSIFICATION.	Number.	Amount.
Armories.....	6	\$173 00
Bakeries.....	303	4,170 41
Bath-houses .....	1	17 00
Building purposes.....	902	6,929 58
Cemeteries.....	6	54 00
Churches.....	263	3,079 00
Clubs .....	205	3,165 60
Depots and stations.....	56	1,202 50
Dispensaries.....	13	222 00
Dwelling houses.....	53,023	785,025 89
Fountains .....	7	66 17
Freight houses.....	11	103 08
Greenhouses.....	56	848 83
Gymnasiums.....	2	51 50
Garages .....	9	132 00
Halls.....	129	1,970 66
Hand hose.....	9,050	45,250 00
Hospitals and asylums.....	117	5,270 00
Laboratories.....	2	79 50
Laundries.....	412	7,958 85
Libraries and museums.....	19	482 50
Manufactories .....	26	380 00
Model houses.....	15,148	311,573 11
Motors .....	10	65 00
Offices .....	1,608	13,939 57
Photographers .....	52	1,176 74
Police stations.....	3	45 00
Pool and bowling.....	88	1,171 34
Puddling trenches and paving.....	14	303 05
Razing buildings.....	6	66 00
Restaurants and lunch rooms.....	503	8,474 89
Saloons and bottling.....	396	18,827 40
Schools.....	74	1,443 00
Shops.....	3,252	29,551 88
Street watering.....	9	414 50
Shipping.....	13	87 19
Stables .....	3,054	20,951 66
Steam and gas engines.....	142	2,252 95
Steam crushers.....	2	51 00
Stores .....	6,089	69,273 00
Tanks .....	4	1,909 06
	95,085	\$1,350,188 41

Table V.  
Water at Meter Rates.

CLASSIFICATION.	Number.	Quantity of Water Consumed. Cubic Feet.	Amount Assessed.
Armories .....	3	362,000	\$483 80
Bakeries .....	22	9,919,000	2,504 30
Bath-houses .....	9	879,000	1,158 90
Boarding houses .....	97	5,710,000	7,645 42
Bottling establishments .....	41	3,223,000	4,241 60
Breweries .....	22	23,813,000	27,886 60
Cemeteries .....	5	1,838,000	2,253 68
Chemicals .....	7	1,198,000	1,531 50
Clubhouses .....	52	10,626,000	13,408 38
Distilleries .....	5	2,493,000	3,068 50
Electrical companies .....	11	17,156,000	17,510 20
Elevators and motors .....	497	39,080,000	50,877 30
Factories .....	265	54,647,000	69,456 99
Fish houses .....	27	2,053,000	2,644 80
Garages .....	22	2,288,000	2,998 55
Gas works .....	11	12,035,000	13,935 00
Greenhouses .....	11	850,000	1,107 40
Halls .....	12	2,178,000	2,715 10
Hospitals .....	21	12,127,000	14,403 00
Hotels .....	131	87,444,000	107,506 42
Iron works .....	37	9,723,000	11,978 90
Laundries .....	66	20,806,000	25,857 64
Markets .....	2	108,000	149 40
Mills and engines .....	65	16,126,000	20,318 10
Model houses .....	1,251	87,666,000	117,663 40
Navy yard and barracks .....	4	27,385,000	23,838 15
Offices, stores and shops .....	1,731	213,410,000	260,951 98
Oil works .....	1	33,000	46 20
Pool and bowling .....	5	85,000	119 90
Public institutions .....	9	9,043,000	10,875 40
Saloons and restaurants .....	380	23,098,000	30,270 90
Schools .....	48	6,160,000	8,101 94
Slaughtering houses .....	4	1,814,000	2,234 00
Stables .....	344	16,185,000	22,840 70
Steam and street railways .....	47	219,119,000	201,310 27
Stone works .....	6	989,000	1,287 30
Sugar refineries .....	1	36,128,000	30,526 40
Tanneries .....	5	369,000	507 40
Theatres .....	22	3,811,000	4,913 50
Warehouses .....	23	8,107,000	10,172 70
Wharves and shipping .....	85	34,623,000	42,395 09
<b>Totals .....</b>	<b>5,407</b>	<b>1,024,707,000</b>	<b>\$1,173,696 71</b>

**Table VI.***Number and Amounts of Abatements Allowed during the Year 1906.*

ON ACCOUNT OF ASSESSMENTS FOR YEAR.	Number.	Amount.
<b>1899</b> .....	1	\$130 50
<b>1900</b> .....	1	128 40
<b>1901</b> .....	1	231 60
<b>1902</b> .....	.....	.....
<b>1903</b> .....	98	765 95
<b>1904</b> .....	156	1,274 33
<b>1905</b> .....	1,841	18,308 30
<b>1906</b> .....	2,462	19,166 13
<b>Total</b> .....	4,560	\$40,005 21

**Table VII.***New Elevator, Motor and Service Pipes.*

Elevator pipes.....	18
Motor pipes.....	3
Fire pipes.....	34
Service pipes.....	1,203
<b>Total</b> .....	1,258

**Table VIII.**  
*Turning Water Off and On.*

For repairs of mains.....	701
For repairs of services.....	3,280
For non-payment of water bills.....	1,986
For waste.....	2
Turned on first time.....	1,162
Vacancies.....	2,799
 Total .....	 9,930

**Table IX.**  
*Off and On Receipts.*

Received for turning water off and on for repairs, deposited with City Collector.....	\$1,584 50
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**Table X.**

ELEVATOR, MOTOR AND FIRE PIPE SERVICE, FOR THE YEAR ENDING  
DECEMBER 31, 1906.

*Elevators.*

Under supervision December 31, 1905 . . . . .	590
Discontinued during the year . . . . .	11
Changed to electric . . . . .	3
	— 14
New elevators inspected and accepted during the year . . . . .	576
Under supervision December 31, 1906 . . . . .	591
Changed to tank and metered water and still under supervision, Inspections made . . . . .	71
Accuracy tests made . . . . .	827
Registering inaccurately and repaired by owners . . . . .	665
Wasting water and repaired by owners . . . . .	69
Clock, cord broken and repaired by owners . . . . .	32
Clock, hands off, or glass broken and repaired by owners . . . . .	47
	15

*Motors.*

Under supervision December 31, 1905 . . . . .	122
Discontinued . . . . .	3
Changed to electric . . . . .	2
	— 5
New motors added to service during the year . . . . .	117
	3
Under supervision December 31, 1906 . . . . .	120
Motors on meters . . . . .	18
Inspections made . . . . .	154
Measured . . . . .	33
Tested . . . . .	104
Registering inaccurately and repaired by owners . . . . .	23
Not registering, repaired by owners . . . . .	19
Wasting water and repaired by owners . . . . .	11

*Fire Service.*

Premises under supervision December 31, 1905 . . . . .	517
Supervision discontinued . . . . .	13
	—
Premises equipped during year . . . . .	504
	25
Premises under supervision December 31, 1906 . . . . .	529
Inspections of premises . . . . .	3,741
Total number of inspections of outlet valves . . . . .	39,419
Total number of hydrant inspections . . . . .	989
Total number of valves sealed and resealed . . . . .	3,942
Total number of hydrant valves sealed and resealed . . . . .	156

*By-passes.*

Meter by-passes under supervision December 31, 1905 . . . . .	39
Discontinued . . . . .	3
	—
By-passes additional . . . . .	36
	2
Under supervision December 31, 1906 . . . . .	38
Inspections made . . . . .	278
Resealed . . . . .	26

Table XI.

## WASTE DETECTION.

## Water Inspection.

Waste reports.....	15,709
First examinations.....	15,709
Second examinations .....	10,400
Third examinations.....	4,180
Fourth examinations .....	709
Fine notices issued.....	437

**Table XII.***Defective Fixtures and Waste.*

Tank fixtures leaking.....	12,829
Faucets leaking .....	7,536
Bursts inside.....	380
Bursts outside.....	47
Hopper-cocks leaking.....	92
Water-closets leaking.....	747
Wilful waste.....	35

**Table XIII.***Statement of Meters for Year ending January 31, 1907.*

Meters belonging to the department January 31, 1906 . . . . .	5,294
Purchases . . . . .	162
	5,456
Condemned during year . . . . .	167
Stolen . . . . .	3
Sold . . . . .	1
Belonging to the department January 31, 1907 . . . . .	<u>5,285</u>

**Table XIV.***Distribution of Meters January 31, 1907.*

In service . . . . .	5,084
At department shop . . . . .	201
	<u>5,285</u>

Table XV.

*General Statement of Work Performed on Meters during Year ending January 31, 1907.*

	Meters.	Boxes.
Applied .....	345	44
Discontinued.....	247	.....
Changed .....	570	.....
Changed location.....	14	.....
Tested.....	1,769	.....
Repaired at shop.....	591	.....
Repaired at factory.....	87	.....
Repaired in service.....	313	237
Examined .....	215	.....
Abandoned.....	.....	15
Hayed.....	1,516	.....
Condemned.....	167	.....
Purchased.....	162	.....
Meters in service.....	5,084	.....
At department shop.....	201	.....
Private meters in service.....	53	.....
Sold.....	1	.....
Stolen.....	3	.....

Table XVI.

*Meters Applied.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Crown.....	1	5	3	10	8	23	51	96	197
Worthington.....			2	1	3	2	7	5	20
Hersey.....	1	3	6	8	16	9	33	1	77
Metropolitan.....						1	8	....	9
Disc .....	1	....	1	1	8	4	7	10	32
Thomson .....								3	3
B. W. W.....							2	....	2
Nash.....								1	1
Lambert.....				1	....	....	....	1	2
Gem.....		1	....	1	....	....	....	....	2
Totals .....	3	9	12	22	35	39	108	117	345

Table XVII.

*Meters Discontinued.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Worthington .....			2	7	5	10	15	1	40
Crown.....	3	4	1	2	11	21	77	....	119
Hersey .....	2	4	9	9	18	20	1	....	63
Metropolitan.....						18	....	....	18
B. W. W.....							3	....	3
Gem .....	1	....							1
Thomson .....								1	1
Empire .....						1	....	....	1
Nash.....								1	1
Totals.....	1	5	10	17	16	40	77	81	247

**Table XVIII.***Meters Purchased.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Crown.....	.....	.....	3	19	8	6	25	.....	61
Disc.....	1	.....	1	2	14	12	16	36	82
Hersey.....	.....	.....	1	.....	.....	.....	18	.....	19
Totals.....	1	.....	5	21	22	18	59	36	162

**Table XIX.***Meters Repaired at Factory.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Crown.....	.....	1	1	.....	3	11	19	27	62
Hersey.....	1	.....	.....	.....	4	3	4	.....	12
Lambert.....	.....	.....	.....	.....	1	.....	.....	.....	1
Thomson.....	.....	.....	.....	1	1	1	1	5	9
Nash.....	.....	.....	.....	.....	.....	1	1	.....	2
Trident.....	.....	.....	.....	.....	.....	1	.....	.....	1
Totals.....	1	1	1	1	9	17	25	32	87

**Table XX.***Meters Condemned.*

	DIAMETER IN INCHES.						Totals.
	3	2	1½	1	¾	⅝	
Crown.....	.....	.....	.....	.....	.....	.....	6
Worthington.....	2	7	3	38	36	1	87
B. W. W.....	.....	.....	.....	.....	2	.....	2
Metropolitan.....	.....	.....	1	12	59	.....	72
Totals.....	2	7	4	50	97	7	167

**Table XXI.**  
*Meters Repaired in Service.*

CAUSE OF REPAIRS.	Number.	CAUSE OF REPAIRS.	Number.
Clock broken.....	59	Brought forward.....	125
Glass broken.....	31	Leak at spindle.....	93
Spindle broken.....	1	Leak at coupling.....	66
Ratchet broken.....	8	Gear loose.....	11
Cover broken.....	24	Gear bound .....	3
Leak at body.....	2	Defaced.....	15
<i>Carried forward.....</i>	<i>125</i>	<i>Total .....</i>	<i>313</i>

**Table XXII.**  
*Meters Changed.*

CAUSE.	Number.	CAUSE.	Number.
For test.....	208	Brought forward.....	462
Rust.....	8	Did not mesh.....	13
Frost.....	14	Defaced .....	7
Gravel.....	19	Relocated.....	8
Solder .....	15	Spindle broken.....	7
Clock broken.....	32	Body leak.....	12
Heat .....	9	Hatchet broken.....	14
No force.....	37	Intermediate worn.....	7
Stoppage.....	28	Piston bound.....	11
Intermediate broken.....	50	Gear bound.....	20
Gear broken .....	2	Shaft bound.....	2
Enlarged.....	40	Gear loose.....	9
<i>Carried forward.....</i>	<i>462</i>	<i>Total .....</i>	<i>572</i>

Table XXIII.

*Meters in Service, January 31, 1907.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Crown .....	11	48	58	106	174	396	503	1,211	2,507
Worthington.....	2	15	28	119	112	399	265	3	943
Hersey .....	8	15	39	132	169	269	384	17	1,033
Metropolitan.....				1	15	54	358	2	430
Disc .....	1	.....	7	5	22	14	16	28	93
B. W. W.....	.....	.....	.....	.....	.....	29	.....	.....	29
Lambert.....	.....	.....	.....	2	3	2	4	4	13
Thomson.....	.....	.....	.....	.....	.....	.....	2	3	5
Empire.....	.....	.....	.....	.....	7	5	1	.....	15
Gem.....	.....	4	.....	1	.....	.....	.....	.....	5
Nash.....	.....	.....	3	.....	1	1	2	1	8
Trident.....	.....	.....	.....	.....	.....	2	.....	.....	2
Torrent.....	1	.....	.....	.....	.....	.....	.....	.....	1
Totals.....	22	82	136	366	503	1,142	1,564	1,269	5,084

Table XXIV.

*Private Meters in Service, January 31, 1907.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Crown.....	6	2	2	5	10	3	2	4	34
Worthington.....	.....	.....	2	5	.....	3	.....	2	12
Hersey .....	.....	2	1	1	.....	.....	.....	.....	4
Gem.....	2	.....	.....	.....	.....	.....	.....	.....	2
B. W. W.....	.....	.....	.....	.....	.....	1	.....	.....	1
Totals.....	8	4	5	11	10	6	3	6	53

Table XXV.

Meters at Department Shop, January 31, 1907.

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅓	
Worthington .....		4	3	16	6	34	5	3	71
Crown.....		1	4	2	4	4	8	38	61
Hersey.....			2	4	2	6	6	3	23
Metropolitan .....				2		1	7		10
Disc.....				2	5			8	15
B. W. W.....							1		1
Lambert.....								2	2
Thomson .....								3	3
Empire.....							1		1
Nash.....						1			1
Gem.....	2	1	4	1					8
Rogers.....							1		1
Ball & Fitts.....				1	1		1		3
Totals.....	2	6	14	28	17	46	30	58	201

Table XXVI.

Meters Belonging to Department, January 31, 1907.

Worthington, $\frac{5}{8}$ inch . . . . .	6	Thomson, $\frac{5}{8}$ inch . . . . .	6
" $\frac{3}{4}$ " . . . . .	270	" $\frac{3}{4}$ " . . . . .	2
" 1 " . . . . .	433		
" 1½ " . . . . .	118	Gem, " . . . . .	2
" 2 " . . . . .	135	" " . . . . .	3
" 3 " . . . . .	31	" " . . . . .	4
" 4 " . . . . .	19	" " . . . . .	5
" 6 " . . . . .	2	" " . . . . .	6
			—
	1,014		2
Crown, $\frac{5}{8}$ " . . . . .	1,249	Trident, 1 " . . . . .	.
" $\frac{3}{4}$ " . . . . .	511	Empire, $\frac{3}{4}$ " . . . . .	2
" 1 " . . . . .	400	" 1 " . . . . .	5
" 1½ " . . . . .	178	" 1½ " . . . . .	7
" 2 " . . . . .	108		
" 3 " . . . . .	62	Nash, $\frac{5}{8}$ " . . . . .	2
" 4 " . . . . .	49	" $\frac{3}{4}$ " . . . . .	2
" 6 " . . . . .	11	" 1 " . . . . .	1
		" 1½ " . . . . .	1
	2,568	" 3 " . . . . .	3
Hersey, $\frac{5}{8}$ " . . . . .	20		
" $\frac{3}{4}$ " . . . . .	390	Disc, $\frac{5}{8}$ " . . . . .	36
" 1 " . . . . .	275	" $\frac{3}{4}$ " . . . . .	16
" 1½ " . . . . .	171	" 1 " . . . . .	14
" 2 " . . . . .	136	" 1½ " . . . . .	27
" 3 " . . . . .	41	" 2 " . . . . .	7
" 4 " . . . . .	15	" 3 " . . . . .	7
" 6 " . . . . .	8	" 6 " . . . . .	1
	1,056		10
Metropolitan, $\frac{5}{8}$ " . . . . .	2	Ball & Fitts, $\frac{3}{4}$ " . . . . .	1
" $\frac{3}{4}$ " . . . . .	365	" 2 " . . . . .	1
" 1 " . . . . .	55	" 3 " . . . . .	1
" 1½ " . . . . .	15		
" 2 " . . . . .	3		3
		Torrent, 6 " . . . . .	1
B. W. W., $\frac{3}{4}$ " . . . . .	30	Rogers, $\frac{3}{4}$ " . . . . .	1
Lambert, $\frac{5}{8}$ " . . . . .	6		
" $\frac{3}{4}$ " . . . . .	4		
" 1 " . . . . .	2		
" 1½ " . . . . .	3		
" 2 " . . . . .	2		
			5,285

## REPORT OF THE DISTRIBUTION DIVISION.

OFFICE OF THE ASSISTANT COMMISSIONER,  
710 ALBANY STREET, February 1, 1907.

WILLIAM J. WELCH, Esq.,  
*Water Commissioner:*

SIR,—I herewith submit in tabular form the annual report of the Distribution Division for the year ending January 31, 1907.

Respectfully,

JAMES P. LENNON,  
*Assistant Commissioner in Charge.*

## NEW MAINS LAID.

**Statement of Location, Size, Nominal Pressure, and Number of Feet Laid during the Year Ending January 31, 1907.**

NOTE.—C. P. indicates City Proper; Rox., Roxbury; W. R., West Roxbury; Bri., Brighton; Dor., Dorchester; S. B., South Boston; E. B., East Boston; Chsn., Charlestown; B. H., Boston Harbor; Som., Somerville.

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Prentiss st.....	Across Columbus ave.....	Rox.	48-in.	L.	96
Longwood ave....	Between Huntington ave. and Vila st..	"	"	L.	1,462
	Total 48-inch.....				<u>1,558</u>
Congress st ... .	Between Sleeper st. and drawbridge ..	S. B.	24-in.	L.	185
Sleeper st.....	At Congress st.....	"	"	L.	41
	Total 24-inch.....				<u>226</u>
Dudley ave.....	Between South and South Fairview sts.	W. R.	16-in.	H.	270
Congress st.....	" A and Sleeper sts.....	S. B.	"	L..	392
	Total 16-inch.....				<u>662</u>

New Mains Laid.—*Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Waltham st.....	Bet. Harrison ave. and Union Park st..	C. P.	12-in.	L.	82
Beach st.....	" Kingston and Utica sts.....	"	"	H.	160
Washington st....	At Boylston st.....	"	"	H.	17
" ....	Between Summer and Water sts.....	"	"	L.	1,014
" ....	" Bedford and Avon sts.....	"	"	L.	185
Hanover st.....	At Blackstone st. (connection between 24-inch and 12-inch).....	"	"	L.	10
" .....	At Union st. (connection between 24-inch and 12-inch).....	"	"	L.	8
Portland st.....	Between Traverse and Canseway sts...	"	"	H.	90
Leon st.....	" Ruggles and Greenleaf sts....	Rox.	"	L.	205
Vancouver st.....	" Huntington ave. and Ward st.	"	"	L.	330
Greenleaf st.....	" Huntington ave. and Leon st..	"	"	L.	25
Leon st.....	" Greenleaf and Ruggles sts....	"	"	L.	65
Vancouver st.....	" Huntington ave. and Ward st.	"	"	L.	189
South Bay ave.....	East from Board of Survey st. No. 713..	"	"	L.	150
Beech st.....	Between Washington and Linden sts..	W. R.	"	H.	400
Gardner st.....	Near Ashumet st.....	"	"	H.	352
La Grange st.....	Between Swallow and Martin sts.....	"	"	H.	706
Poplar st.....	" Dale and Beech sts.....	"	"	H.	168
Williams st.....	" Plainfield and Forest Hills sts.	"	"	H.	579
Commonwealth ave	At Allston st.....	Bri.	"	L.	8
Wellington Hill st..	West from Duke st.....	Dor.	"	H.	146
Mt. Vernon st.....	Between Carson st. and Calf Pasture..	"	"	L.	4,048
Randolph road....	" River and Hollingsworth st...	"	"	H.	669
Rosewood st.....	At Randolph road.....	"	"	H.	3
Wormwood st.....	Between A st. and R.R. tracks.....	S. B.	"	L.	465
Private way.....	At Wormwood st.....	"	"	L.	13
Sleeper st.....	" Congress st.....	"	"	L.	30
Stillings st.....	" " .....	"	"	L.	35
Fargo st.....	Between B and C sts .....	"	"	L.	548
Binford st.....	Near A st.....	"	"	L.	28
Orleans st.....	Between Neptune road and Prescott st.	E. B.	"	L.	35
Frankfort st.....	" Maverick and Gove sts... ....	"	"	L.	216
Orleans st.....	" Gove and Porter sts.....	"	"	L.	75
Boardman st.....	From Ford st.....	"	"	L.	335
	<i>Carried forward.....</i>	.....	.....	.....	11,889

New Mains Laid. — *Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
B. & M. R.R., Ruth- erford ave. yard..	<i>Brought forward.....</i>				11,389
Spice st.....	Between Austin and Spice sts.....	Chsn.	12-in.	L.	3,640
Drive-way between Freight Houses 26 and 27 in B. & M. R.R. Rutherford ave. yard....	" Cambridge st. and R.R. tracks,	"	"	L.	27
Drive-way between Freight Houses 36 and 37 in B. & M. R.R. Rutherford ave. yard....	Bet. Rutherford ave. and R.R. tracks..	"	"	L.	683
" " "	" .. "	"	"	L.	788
<i>Total 12-inch.....</i>					<u>16,527</u>
Rose st.....	Between Albany st. and Harrison ave.	C. P.	10-in.	L.	518
Knox st.....	" Ferdinand and Church sts...	"	"	L.	415
Lansdowne st.....	" Massachusetts ave. and Aller- ton st.....	Rox.	"	L.	125
Allerton st.....	From Lansdowne st.....	"	"	L.	125
Fort ave.....	Opposite Standpipe, near Highland Park st.....	"	"	H.	20
Mountfort st.....	Bet. Audubon rd. and St. Mary's st.	"	"	L.	84
South Fairview st..	From Dudley ave.....	W. R.	"	H.	392
Unnamed st. (will probably be called Quail st.),	Off Cottage ave.....		"	H.	722
Prince st.....	Between Centre and Pond sts.....		"	H.	895
South Fairview st..	From Dudley ave.....		"	H.	55
Halliday st.....	Between Bourne st. and Neponset ave.		"	H.	108
" ..	At Neponset ave.....		"	H.	110
Champney st.....	At Hunnewell ave.....	Bri.	"	H.	7
Hunnewell ave....	From Champney st.....		"	H.	179
Wellington rd.....	Between Corey rd. and Board of Sur- vey st. No. 868.....		"	H.	258
Johnston rd.....	Off Blue Hill ave.....	Dor.	"	H.	120
Bay st.....	Between Dorchester ave. and Auck- land st.....		"	L.	286
" ..	" Auckland and Maryland sts..		"	L.	56
Almont st.....	Off Walk Hill st.....		"	H.	1,540
Alabama st.....	At Almont st.....		"	H.	3
Bay st.....	Between Auckland and Maryland sts..		"	L.	92
<i>Total, 10-inch.....</i>					<u>6,110</u>

## New Mains Laid.—Continued.

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Wilkes st.....	Bet. Washington and Bradford sts.....	C. P.	8-in.	L.	81
Medfield st.....	" Audubon rd. and St. Mary's st...	Rox.	"	L.	420
St. Mary st.....	At Medfield st.....	"	"	L.	14
Ruggles st.....	Between Westminster st. and Shawmut ave.....	"	"	L.	235
Priesing st.....	" Chestnut ave. and Mozart st..	"	"	H.	533
Estrella st.....	" Centre and Priesing sts.....	"	"	H.	334
Ruggles st.....	At Shawmut ave. (west side).....	"	"	L.	18
Asticou rd.....	Between South and Walk Hill sts.....	W. R.	"	H.	204
Irving st.....	From Pelton st.....	"	"	H.	332
Ashland st.....	Between Sutton and Harvard sts.....	"	"	H.	285
Williams st.....	" Plainfield and Forest Hills sts.	"	"	H.	8
Verona st.....	" Child st. and Carolina ave....	"	"	H.	364
Kilsyth rd.....	" Colliston and Lanark rds.....	Bri.	"	H.	238
Empire st.....	" Cambridge and North Harvard sts.....	"	"	L.	230
Champney st.....	" Stratton st. and Hunnewell ave.....	"	"	H.	407
Hoyt st.....	Off Dorchester ave.,.....	Dor.	"	L.	221
Vaughan st.....	Bet. Blue Hill ave. and Harvard st....	"	"	H.	110
Woodland ave.....	" Castle Rock st. and Rockland ave..	"	"	H.	232
Castle Rock st.....	At Woodland ave.....	"	"	H.	27
Rockland ave.....	" " .....	"	"	H.	75
Wellington road (south side).....	Off Magnolia st.....	"	"	H.	108
Wellington road (north side).....	" " .....	"	"	H.	15
Halborn st.....	" West Selden st.....	"	"	H.	119
Norton st.....	Between Bowdoin and Richfield sts....	"	"	H.	100
Ceylon st.....	" Columbia rd. and Quincy st..	"	"	H.	692
Brenton st.....	" Glenway and Greenwood sts..	"	"	H.	134
Greenwood st.....	" Brenton and Roxton sts.....	"	"	H.	111
Prairie st.....	At Almont st.....	"	"	H.	3
Mattapan st.....	" " .....	"	"	H.	3
Colorado st.....	From Almont st.....	"	"	H.	287
Itasca st.....	At Almont st.....	"	"	H.	8
Prescott pl.....	From Church st.....	"	"	H.	205
Rockdale st.....	At Randolph rd.....	"	"	H.	3
<i>Carried forward.....</i>					6,156

New Mains Laid. — *Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward.....</i>				6,156
Norton st.....	Between Bowdoin and Richfield sts....	Dor.	8-in.	H.	355
Margaret st.....	" Bowdoin and Norton sts.....	"	"	H.	228
Downer ave.....	" DeWolf and Pleasant sts.....	"	"	H.	85
Chelmsford st.....	Off Adams st.. .....	"	"	H.	514
Fifield st.....	Between Church and Winter sts.....	"	"	H.	215
Browning ave.....	Off Bernard st.....	"	"	H.	126
Savin Hill rd.....	" Russ ter.....	"	"	H.	454
Saranac st.....	Between Adams and Minot sts.....	"	"	H.	230
Power st.....	" Dorchester ave. and Boston st.	S.B.	"	L.	305
Wormwood st.....	" A st. and railroad tracks.....	"	"	L.	16
" .....	At A st.....	"	"	L.	17
Foundry st.....	Between Fourth and Division sts.....	"	"	H.	320
Cypher st.....	" B and C sts.....	"	"	L.	552
Farnsworth st.....	At Congress st.....	"	"	L.	24
Winfield st. ....	Between Seventh and Eighth sts.....	"	"	L.	299
Gladstone st.....	" Orienta pl. and Tower st.....	E.B.	"	L.	81
Frankfort st.....	" Bennington st. and Neptunerd.	"	"	L.	352
Shrimpton st.....	" Prescott and Putnam sts....	"	"	L.	166
	<i>Total, 8-inch.....</i>				<u>10,495</u>
Hanover st.....	Between Blackstone and Union sts....	C. P.	6-in.	L.	165
Crowley st.....	" Francis st. and Fenwood rd..	Rox.	"	L.	37
Sussex st.....	At Warwick st.....	"	"	L.	96
Otis pl. ....	Off Norfolk st .....	W.R.	"	H.	36
Perkins st.....	" Canterbury st.....	"	"	H.	144
Russ ter.....	" Savin Hill ave.....	Dor.	"	L.	202
Norton st.....	Between Bowdoin and Stonehurst sts..	"	"	H.	105
" .....	" Stonehurst and Speedwell sts.	"	"	H.	75
Muzzy st.....	At King st.....	"	"	H.	14
Woodward pk.....	Between Howard ave. and Folsom st..	"	"	H.	130
Claybourne st.....	" Dakota and Tonawanda sts...	"	"	H.	31
Mt. Vernon st. ....	2,005 feet from 12-inch gate at Carson st. connection, between 12-inch and 6-inch lines.....	"	"	L.	12
" .....	At entrance to Calf Pasture connection between 10-inch and 6-inch lines.....	"	"	L.	8
	<i>Carried forward.....</i>				<u>1,055</u>

**New Mains Laid. — Concluded.**

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward.....</i>		.....	.....	1,055
Glover pl.....	Off Highland st.....	Dor.	6-in.	H.	141
Whitfield st.....	Between Talbot and Northern aves.....	"	"	H.	36
Congress st.....	" Sleeper st. and drawbridge...	S. B.	"	L.	78
Across Columbia rd.....	Opposite P st.....	"	"	L.	102
Columbia rd. (in sidewalk) .....	Between P and Seventh sts.....	"	"	L.	296
Fourth st.....	" L and M sts.....	"	"	H.	121
Hatch st.....	" Eighth and Ninth sts.....	"	"	L.	302
Webster ave.....	" Sumner and Webster sts.....	E. B.	"	L.	307
	Total, 6-inch.....		.....	.....	<u>2,438</u>
Boston Harbor ....	Between Long and Rainsford Islands..	B.H.	2-in.	H.	3,264

## OLD MAINS RELAID.

**Statement of Location, Size, Nominal Pressure, Number of Feet Laid and Size of Mains Abandoned During the Year Ending January 31, 1907.**

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.	Size Abandoned.
Traverse street.....	At Haverhill street.....	C. P.	30-in.	L.	5	30-in.
Tremont street.....	" Massachusetts avenue.....	"	"	L.	48	"
" .....	Between Kendall and Coventry sts. {	C. P. Rox.	"	L.	520	"
	Total, 30-inch .....				573	
Washington street....	Between State st. and Adams sq....	C. P.	24-in.	L.	273	24-in.
Washington st. North.	At Stillman street.....	"	20-in.	L.	10	20-in.
Medford street.....	" Chelsea street .....	Chsn.	"	L.	4	"
	Total, 20-inch.....				14	
* Dover street.....	Bet. Washington and Albany sts....	C. P.	16-in.	H.	365	12-in.
Boylston street.....	" Washington st. and Bumstead et.	"	"	H.	80	8-in.
Washington street....	" Essex and Bedford streets .....	"	"	H.	568	12-in.
" ....	" Bedford and Avon streets.....	"	"	H.	50	12-in.
" ....	" Franklin and Water streets.....	"	"	H.	585	8 & 12-in.
Hanover street... ....	" N. Bennet and Parmenter sts....	"	"	L.	400	16-in.
Congress street.....	" A st. and Congress-st. bridge....	S. B.	"	L.	567	12-in.
Chelsea street.....	At Medford street.....	Chsn.	"	L.	10	16-in.
	Total, 16-inch .....				2,625	
Harrison avenue.....	Between E. Dedham and Malden sts.	C. P.	12-in.	L.	335	12-in.
" .....	" Union Park and Savoy sts.	"	"	L.	300	"
Union street.....	Bet. Washington and Hanover sts...	"	"	L.	285	8-in.
Endicott street.....	At Hanover street.....	"	"	L.	10	12-in.
Hanover street.....	" Union street.....	"	"	L.	6	"
Congress street.....	Between Milk and Franklin streets..	"	"	L.	173	8-in.
Chandler street.....	At Columbus avenue.....	"	"	L.	65	6-in.
Clarendon street.....	" " .....	"	"	L.	30	"
West Canton street....	" " (east side).....	"	"	L.	25	"
Appleton street.....	" " .....	"	"	L.	100	"
	<i>Carried forward.....</i>				1,329	

\* Dead.

## Old Mains Relaid.—Continued.

LOCATION.	District.	Size.	Nominal Pressure.	Number of Feet.	Size Abandoned.
<i>Brought forward.....</i>				1,329	
Clarendon street.....	Bet. Tremont st. and Warren ave....	C. P. 12-in.	L.	380	6-in.
Washington street....	" State street and Cornhill.....	" "	H.	249	"
Cedar street.....	At Centre street.....	Rox.	" H.	52	"
Fort avenue.....	" " .....	" "	H.	44	"
Eustis street .....	Bet. Albany and Winslow streets....	" "	L.	175	"
Greenleaf street.....	" Huntington ave. and Leon st....	" "	L.	398	"
Leon street.....	" Greenleaf and Ruggles streets..	" "	L.	75	8-in.
" .....	" " " " ..	" "	L.	572	6 & 8-in.
Clifton street.....	" Shirley and Rockford streets....	Dor.	" L.	230	6-in.
Shirley street .....	Across Clifton street.....	" "	L.	42	"
Dudley street.....	At Rockford street.....	" "	L.	10	12-in.
Sixth street.....	Across K street .....	S. B.	" L.	80	6-in.
Congress street.....	Near Freight House No. 7.....	" "	L.	8	12-in.
" .....	At Stillings street.....	" "	L.	8	"
Binford street.....	" A street .....	" "	L.	52	8-in.
Spice street.....	Between Cambridge street and rail-road tracks.....	Chsn.	" L.	460	6-in.
	<i>Total, 12-inch.....</i>			<u>4,164</u>	
Hayward place.....	At Washington street.....	C. P. 10-in.	H.	4	10-in.
Providence street.....	Between Park sq. and Church st ....	" "	L.	234	6-in.
Holyoke street.....	At Columbus avenue.....	" "	L.	61	"
Yarmouth street.....	" " .....	" "	L.	60	"
West Canton street....	" " (east side) .....	" "	L.	49	"
Concord square.....	" " .....	" "	L.	24	"
Rutland square.....	" " (west side).....	" "	L.	57	"
Massachusetts avenue (north side).....	" east side of Columbus avenue....	" "	L.	28	"
Parmenter street.....	" Hanover street.....	" "	L.	28	"
Richmond street.....	" " .....	" "	L.	45	8-in.
Bay street.....	Bet. Auckland and Maryland sts....	Dor.	" L.	137	12-in.
Evans street.....	" Milton avenue and Capen st....	" "	H.	1,096	6-in.
Savin Hill avenue.....	" Evandale ter. and Denny st ....	" "	H.	933	"
Russ terrace.....	Off Savin Hill avenue.....	" "	H.	114	"
K street .....	Between Fourth and Sixth streets...	S. B.	" L.	643	"
	<i>Carried forward.....</i>			<u>3,513</u>	

## Old Mains Relaid.—Concluded.

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.	Size Abandoned.
	<i>Brought forward.....</i>		.....	.....	3,513	
Fifth street.....	Across K street.....	S. B.	10-in.	L.	77	6-in.
Bremen street.....	Bet. Saratoga st. and Glendon pl....	E. B.	"	L.	338	"
Pope street.....	Across Curtis street.....	"	"	L.	62	"
Bremen street.....	Bet. Bennington and Putnam sts....	"	"	L.	1,185	"
	Total 10-inch .....		.....	.....	5,175	
* Harrison avenue....	At north side of Dover street.....	C. P.	8-in.	H.	2	8-in.
Rollins street.....	" Harrison avenue.....	"	"	L.	20	6-in.
Avery street.....	" Washington street.....	"	"	H.	4	8-in.
Park square.....	Between Boylston and Eliot sts. ....	"	"	L.	287	4-in.
Florence street.....	Bet. Washington st. & Harrison ave..	"	"	L.	349	"
Wilkes street.....	" Washington and Bradford sts...	"	"	L.	235	"
Lynn street.....	" Cooper and Thacher streets....	"	"	L.	323	4 & 6-in.
Berwick park.....	At Columbus avenue.....	"	"	L.	65	6-in.
Buckingham street....	" " .....	"	"	L.	73	"
West Canton street...	" west side of Columbus avenue...	"	"	L.	60	"
Massachusetts avenue (south side).....	" east side of Columbus avenue....	"	"	L.	35	"
Codman park.....	From Townsend street.....	Rox.	"	H.	680	4-in.
Codman Hill street ...	Bet. Codman pk. and Washington st.	"	"	H.	290	"
Birch street.....	Near Penfield st., at Stony brook....	W. R.	"	H.	36	8 & 12-in.
Vaughan street.....	Bet. Blue Hill ave. and Harvard st..	Dor.	"	H.	20	8-in.
Maryland street.....	" Bay st. and Savin Hill avenue..	"	"	L.	110	6-in.
Thetford avenue.....	At Evans street.....	"	"	H.	31	"
Stanton street.....	" " .....	"	"	H.	30	"
Dyer street.....	" " .....	"	"	H.	32	"
Wormwood street.....	" Private way .....	S. B.	"	L.	5	8-in.
" .....	" A street.....	"	"	L.	10	"
Beckler avenue.....	" K street.....	"	"	L.	36	6-in.
Gladstone street.....	From Orienta place.....	E. B.	"	L.	14	8-in.
Saratoga street.....	Between Meridian and Shelby sts...	"	"	L.	3,550	6-in.
	Total 8-inch .....		.....	.....	6,297	

\* Dead.

**Old Mains Relaid.—Concluded.**

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.	Size Abandoned.
Chickering place.....	At Washington street.....	C. P.	6-in.	H.	4	6-in.
Marshall street.....	" " .....	"	"	L.	7	"
Bay street.....	From Fayette street.....	"	"	L.	113	4-in.
Thacher street .....	At North Margin street.....	"	"	L.	8	6-in.
Thacher court.....	From Thacher street.....	"	"	L.	165	4-in.
Mechanic street.....	At Hanover street.....	"	"	L.	5	"
Cedar street.....	" Centre street.....	Rox.	"	H.	6	6-in.
Silver street.....	Bet. A and B sts., over R.R. bridge..	S. B.	"	L.	36	"
Mishawum street....	At Main street.....	Chsn.	"	L.	40	16 & 4-in.
Total 6-inch .....					384	

**MAINS RELOCATED.**

**Statement of Location, Size, Nominal Pressure, Number of Feet Laid During the Year Ending January 31, 1907.  
Size of Main before Relocation, and Explanatory Remarks.**

LOCATION.	District.	Size.	Nominal Diameter inches.	Number of feet.	Size before relocation.	Size before relocation.	Remarks.
Essex street (south side) ..	Between Washington st. and Jersey pl. ....	C.P.	36-in.	L.	100 { 20 and 16-in.	{	On account of subway.
Washington street .....	" Boylston and Essex streets.....	"	30-in.	L.	85 24-in.	" "	(flanged pipes).
Haverhill street.....	" Traverse street and Washington street North .....	"	"	L.	490 { 24 and 20-in.	" "	
Stillman street.....	" Washington street North and Endicott street.....	"	"	L.	226 { 24 and 20-in.	" "	
Endicott street.....	" Stillman and Cross streets.....	"	"	L.	180 { 24 and 20-in.	" "	
	Total, 30-inch.....			.....	981		
Endicott street. ....	Between Cross and Hanover streets ... ..	C.P.	24-in.	L.	491 { 24 and 20-in.	{	On account of subway.
Hanover street.....	" Endicott and Union streets.....	"	"	L.	235 24-in.	" "	
Adams square.....	" Washington and Devonshire sts. ....	"	"	L.	91 "	" "	
Broadway.....	" Cross and Glen streets.....	Som.	"	L.	385 "		{ Lowered and moved on account of street changes.
	Total, 24-inch.....			.....	1,202		
Chelsea street .....	Between Vine and Bunker Hill streets.....	Chsn.	20-in.	L.	25 20-in.		Raised on account of sewer.

## WATER DEPARTMENT.

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Bedford street.....	At Washington street.....	C. P.	16-in.	L.	25	16-in.	On account of subway.
Hanover street.....	" Endicott street.....	"	"	L.	18	24-in.	" " new 24-inch line.
Merrimac street.....	Between Canal and Washington streets.....	"	"	L.	14	"	" " subway.
Shawmut avenue.....	Across Ruggles street.....	Rox.	"	L.	46	16-in.	Raised on account of sewer.
Mt. Washington avenue....	At A street.....	S. B.	"	L.	20	"	" "
Maverick street .....	Between Chelsea and Frankfort streets.....	E. B.	"	L.	451	12-in.	On account of grade crossing abolition.
" .....	" Bremen and Orleans streets.....	"	"	L.	60	"	On account of grade crossing abolition.
Prescott street..	" "	"	"	L.	198	"	On account of grade crossing abolition.
Total 16-inch .....					<u>832</u>		
Essex street.....	Between Washington street and Hersey pl..	C. P.	12-in.	H.	52	8-in.	On account of subway.
Avon street....	At Washington street.....	"	"	L.	30	{ 12 and 10 in. }	" "
Bedford street.....	" .....	"	"	L.	18	16-in.	" "
Canal street....	Between Traverse and Market streets .....	"	"	L.	385	"	" " and sewer.
" .....	Opposite No. 74 .....	"	"	H.	18	12-in.	Offset around sewer manhole.
Traverse street.....	At Canal street.....	"	"	L.	12	6-in.	On account of sewer and subway.
Union street....	" Washington street.....	"	"	L.	50	8-in.	" " subway.
Franklin street.....	" .....	"	"	L.	35	12-in.	" " "
Milk street.....	" .....	"	"	L.	28	16-in.	" " "
Water street.....	" .....	"	"	L.	35	12-in.	" " "
North street.....	" North square.....	"	"	L.	20	"	Lowered on account of gas main.
Traverse street.....	Across Haverhill street.....	"	"	L.	20	"	Lowered on account of new 30-in. line.
	Carried forward.....					<u>703</u>	

Mains Relocated. — *Continued.*

LOCATION.	District.	Size.	No. initial Presssure.	Number of Ft.	Size before Relocation.	Remarks.
<i>Brought forward.....</i>						
Haverhill street.....	At Washington street North.....	C. P.	12.in.	L.	16	12.in.
Washington street North.....	“ north side of Stillman street.....	“	“	L.	8	“
Stillman street.....	“ Washington street North.....	“	“	L.	10	“
Cross street.....	Across Endicott street.....	“	“	L.	17	“
Blackstone street.....	At Hanover street.....	“	“	L.	20	“
Union street.....	Across Hanover street.....	“	“	L.	45 { 12 and 8.in.	Raised on account of new 24-in. line.
Washington street.....	At Adams square.....	“	“	H.	25	12.in.
Boylston street.....	Between Bumstead ct. and Washington st.....	“	“	L.	52	“
Washington street.....	At Hanover street.....	“	“	L.	69	“
“ .....	“ .....	“	“	L.	32	“
Essex street.....	Between Washington st. and Hersey pl.....	“	“	L.	19	8.in.
Union street.....	At Washington street.....	“	“	L.	35	12.in.
Summer street.....	“ .....	“	“	H.	42	“
“ .....	Between Washington and Hawley streets.....	“	“	L.	92	“
Canal street.....	At Haymarket square (junction of Merrimac street).....	“	“	L.	82	16.in.
Merrimac street.....	“ Haymarket square.....	“	“	L.	8	12.in.

## WATER DEPARTMENT.

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## Mains Relocated.—Continued.

LOCATION.	District.	Size.	Nominal Number of Feet.	Nominal Pressure.	Size before Relocation.	Remarks.
	Brought forward.....	W. R.	12-in.	H.	15	12-in.
Penfield street.....		"	"	H.	12	"
Corey street.....	At Weld street .....					Offset around old well.
Rockford street.....	Between Dudley and Clifton streets. ....	Dor.	"	L.	620 { 3 and 6-inch. }	On account of sewer.
Nelson street.....	" Norfolk and Evans streets.....	"	"	H.	90	Lowered.
Stillings street.....	At Congress street.....	S. B.	"	L.	8	Raised on account of sewer.
Granite street.....	" Mt. Washington avenue.....	"	"	L.	24	" " "
Furnsworth street.....	" Congress street.....	"	"	L.	14	" " 16-inch line.
Stillings street.....	" "	"	"	L.	10	Changing connections from 12 to 16- inch line.
Bennington street.....	Between Bremen street and Neptune road..	E. B.	"	L.	301	On account of abolishment of grade crossings.
Maverick street.....	" Bremen and Orleans streets.....	"	"	L.	110	On account of abolishment of grade crossings.
Summer street.....	Near Orleans street.....	"	"	L.	9	"
Curtis street.....	Between Chelsea and Pope streets.....	"	"	L.	407	Raised on account of sewer.
" .....	" " " "	"	"	L.	83	On account of abolishment of grade crossings.

## WATER DEPARTMENT.

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Orleans street .....	" Everett and Gove streets.....	"	L.	444	
	Total 12-inch .....	.....	.....	<u>5,795</u>	
Columbus ave. (east side).....	At Prentiss street.....	Box.	10.in.	15	10.in.
Prentiss street.....	" Columbus avenue.....	"	" L..	20	"
Penfield street.....	Between Linden and Amherst street.....	W. R.	" H.	110	12.in.
Webster street.....	At Lewis street.....	E. B.	" L.	16	10.in.
Bremen street.....	" Saratoga street.....	"	" L.	100	12.in.
" .....	Between Maverick and Gove streets.....	"	" L.	220	10.in.
	Total 10-inch.....	.....	.....	<u>481</u>	
Central street.....	At Atlantic avenue.....	C. P.	8.in.	14	8.in.
Harrison avenue.....	" Rose street .....	"	" H.	8	"
Market street.....	" Canal street.....	"	" L.	14	6.in.
Prince street.....	Between Hanover st. and Garden-court st..	"	" L.	110	8.in.
North square.....	At North street, opposite No. 33.....	"	" L.	18	"
Washington street.....	Between No. 342 and No. 348.....	"	" H.	20	"
Merrimac street.....	" Canal and Washington streets.....	"	" L.	22	{ S and 12 inch. }
Auburn street.....	At Ruggles street.....	Box.	" L.	8	6.in.
Grove street.....	Near German street.....	W. R.	" H.	12	8.in.
	<i>Carried forward.....</i>	.....	.....	<u>226</u>	
					On account of sewer.
					Offset on account of sewers.
					On account of grade crossings.
					Offset on account of 48-inch line.
					On account of new street lines and grades.
					On account of National Dock and Warehouse Co.'s tracks.
					On account of grade crossing abolition.
					On account of grade crossing abolition.

## Mains Relocated. — Concluded.

LOCATION.	District.	Size.	Nominal Presssure.	Number of Ftts.	Size before Relocation.	Remarks.
<i>Brought forward.....</i>						
Penfield street.....	W. R.	8-in.	H.	226	8-in.	Offset on account of sewers.
“ Between Metcalf and Linden streets.....	“	“	H.	12	“	On account new street line and grade.
Linden street.....	“	“	H.	167	“	“
At Penfield street.....	“	“	H.	22	6-in.	“
“ “ .....	“	“	H.	21	“	“
Amherst street.....	“	“	H.	21	“	“
Wormwood street.....	S. B.	“	L.	140	8-in.	Lowered to conform to street grade.
“ Maverick and Summer streets.....	E. B.	“	L.	230	6-in.	On account of abolishment of grade crossing.
Total 8-inch.....				818		
Fulton place.....	C. P.	6-in.	L.	15	6-in.	Offset on account of gas company.
Elm street.....	“	“	L.	8	“	Straightened out line.
Davenport street.....	“	“	L.	15	“	Lowered on account of 30-inch line.
North Margin street.....	“	“	H.	8	“	“
Chickering place.....	“	“	H.	16	4-in.	Offset on account of subway.
La Fayette place.....	RoX.	“	H.	9	6-in.	Raised on account of sewer.
Marble street.....	“	“	L.	18	“	Offset on account of sewer.
Columbus ave. (west side) .....	“	“	L.	12	“	Raised on account of 48-inch line.

Avalon road.....	Off Weld street.....	W. R.	"	H.	"	70	"	Lowered on account of change in street grade.
Grover avenue.....	At Neponset avenue.....	"	"	H.	"	10	"	Raised on account of sewer.
Neponset court.....	" "	"	"	H.	"	10	"	" " "
Gilman street.....	Between Sutton and Canterbury streets ..	"	"	H.	"	8	"	" "
Brook avenue.....	Opposite No. 12 .....	Dor.	"	L.	"	17	"	Offset on account of sewer.
Fenton place.....	At Fenton street.....	"	"	L.	"	8	"	Raised on account of sewer.
Longfellow street... .	Near Topliff street.....	"	"	II.	"	12	"	" "
Fenton place.....	At Greenwich street.....	"	"	L.	"	11	"	" "
Lewis street.....	" Webster street.....	E. B.	"	L.	"	8	"	Offset on account of National Dock Warehouse Company.
Bremen street.....	Between Maverick and Summer streets.....	"	"	L.	"	10	"	Raised on account of grade crossing abolishment.
Total 6-inch.....						<u>265</u>		
Glenwood street.....	At Warren street.....	Rox.	4-in.	H.		4-in.		
Leonard court.....	" Leonard street.....	Dor.	"	L.		15		Lowered on account of Boston Ele- vated railroad.
Total 4-inch....						8	"	Lowered on account of sewer.
						<u>23</u>		

**Statement of Private Pipe Laid During the Year Ending  
January 31, 1907.**

*(Not included in Statement of Total Length of Boston Water Department System.)*

FOR WHOM.	Where.	District.	Size.	Nominal Pressure.	Number of Feet.
* Institutions Dept....	Deer Island, at new reservoir.....	B. H.	12-in.	L.	60
Sewer Department ....	Calf Pasture, from Mt. Vernon st., at pumping station.....	Dor.	10-in.	L.	551
" "	Mt. Vernon street, at Calf Pasture...	"	"	L.	6
" "	Calf Pasture, at pumping station, between coal-shed and old garbage plant.....	"	8-in.	L.	225
" "	Calf Pasture, at boiler-room (connection between 10-in. and 4-in. lines).....	"	4-in.	L.	21

\* Dead.

**MAINS ABANDONED.**

**Statement of Location, Size, Nominal Pressure, and Number of Feet Abandoned During the Year Ending January 31, 1907.**

LOCATION.	District.	Size.	Nominal Pressure.	Number of Feet.
Traverse street.....	At Haverhill street.....	C. P.	30-in.	L.
Tremont street.....	Between Massachusetts avenue { and Coventry street.....	C. P. & Rox.	{ "	L.
	Total 30-inch.....			1,545
Hanover street.....	Between Endicott and Union sts....	C. P.	24-in.	L.
Merrimac street.....	" Canal and Union streets...	"	"	L.
Union street.....	" Hanover street and Hay-market square.....	"	"	L.
Washington street....	" State street and Cornhill..	"	"	L.
Adams square.....	" Washington and Devonshire streets.....	"	"	L.
Chelsea street.....	" Medford street and north shaft of tunnel.....	Chsn.	"	L.
Broadway.....	" Cross and Glen streets....	Som.	"	L.
	Total 24-inch.....			2,593

Mains Abandoned.—*Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Essex street.....	Bet. Washington st. and Hersey pl..	C. P.	20-in.	L.	84
Washington st. North..	At Stillman st. (north side).....	"	"	L.	10
" "	Between Union and Stillman sts....	"	"	L.	425
Medford street.....	At Chelsea street.....	Chsn.	"	L.	4
Chelsea street.....	Between Vine and Bunker Hill sts..	"	"	L.	23
	Total 20-inch.....				<u>546</u>
Essex street.....	Bet. Washington st. and Hersey pl..	C. P.	16-in.	L.	9
Canal street.....	" Traverse and Market streets....	"	"	L.	385
" .....	At Merrimac street.....	"	"	L.	82
Hanover street.....	Bet. N. Bennet and Parmenter sts...	"	"	L.	400
Shawmut avenue.....	Across Ruggles street.....	Rox.	"	L.	46
Highland park.....	At standpipe, bet. Fort ave. and Beech Glen street.....	"	"	H.	118
Mt. Washington ave..	At A street.....	S. B.	"	L.	1
Chelsea street.....	Bet. Medford st. and north shaft of tunnel.....	Chsn.	"	L.	31
Mishawum street.....	At Main street.....	"	"	L.	12
	Total 16-inch.....				<u>1,101</u>
Harrison avenue.....	Bet. East Dedham and Malden sts..	C. P.	12-in.	L.	335
" .....	" Union Park and Savoy streets	"	"	L.	300
Washington street....	" Essex and Bedford streets....	"	"	H.	568
" .....	" Bedford and Avon streets....	"	"	H.	50
Canal street.....	Opposite No. 74.....	"	"	H.	16
Washington street....	Between Milk and Water streets....	"	"	H.	228
North street.....	At North square.....	"	"	L.	18
Washington street ...	" Elm street.....	"	"	L.	11
Traverse street.....	Across Haverhill street.....	"	"	L.	18
Haverhill street.....	At Washington st. North.....	"	"	L.	14
Washington st. North.	" north side of Stillman street....	"	"	L.	12
Stillman street.....	" Washington st. North.....	"	"	L.	9
Endicott street.....	" Hanover street.....	"	"	L.	10
Cross street.....	Across Endicott street.....	"	"	L.	15
Blackstone street.....	At Hanover street.....	"	"	L.	18
Hanover street.....	" Union street.....	"	"	L.	6
Union street.....	Across Hanover street.....	"	"	L.	14
	<i>Carried forward.....</i>				<u>1,642</u>

**Mains Abandoned. — *Continued.***

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward.</i>				1,642
Merrimac street.....	Between Canal and Washington sts.	C. P.	12-in.	L.	50
Sudbury street.....	At Merrimac street.....	"	"	L.	15
Washington street....	Between Cross and Stillman streets.	"	"	L.	109
"      ....	At Union street.....	"	"	L.	40
Cross street.....	" Haymarket square.....	"	"	L.	35
Blackstone street.....	" Cross street.....	"	"	L.	80
Washington street....	" Adams square.....	"	"	H.	20
"      ....	" Hanover street.....	"	"	L.	69
"      ....	" " .....	"	"	L.	32
Summer street.....	Bet. Washington and Hawley sts...	"	"	L.	37
Union street.....	At Washington street.....	"	"	L.	35
Summer street....	" " .....	"	"	H.	42
Water street.....	At Devonshire street.....	"	"	L.	25
Union street.....	" Washington street.....	"	"	L.	38
Washington street....	" south side of Hanover street....	"	"	L.	70
"      ....	" " " .....	"	"	L.	20
"      ....	Between Hanover and Union sts...	"	"	L.	14
"      ....	" " .....	"	"	L.	80
Adams square.....	Bet. Washington and Devonshire sts.	"	"	H.	75
Ruggles street.....	" Auburn st. and Shawmut ave...	Rox.	"	L.	260
Beech street.....	At Anawan avenue.....	W. R.	"	H.	30
Washington street....	" Montebello road.....	"	"	H.	18
Birch street.....	Near Penfield st., at Stony Brook...	"	"	H.	31
Baker street.....	Between Gardner st. and Baker pl.	"	"	H.	1,228
Penfield street.....	.....	"	"	H.	12
Corey street.....	At Weld street.....	"	"	H.	10
Penfield street.....	Bet. Linden and Amherst streets...	"	"	H.	110
Williams street.....	" Washington and Plainfield sts..	"	"	H.	193
Washington street....	Near Williams street (over Stony brook) .....	"	"	H.	80
Dudley street.....	At Rockford street.....	Dor.	"	L.	10
Nelson street.....	Bet. Norfolk and Evans streets... .	"	"	H.	90
Bay street.....	" Auckland and Maryland sts....	"	"	L.	137
Stillings street.....	At Congress street.....	S. B.	"	L.	7
	<i>Carried forward.</i> .....				4,744

Mains Abandoned. — *Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward.....</i>				4,744
Granite street.....	At Mt. Washington avenue.....	S. B.	12-in.	L.	24
Congress street.....	Bet. A st. and Congress-st. bridge..	"	"	L.	567
" .....	Near Freight House No. 7.....	"	"	L.	8
Farnsworth street....	At Congress street.....	"	"	L.	10
Stillings street.....	" " .....	"	"	L.	4
Congress street.....	" Stillings street.....	"	"	L.	8
A street.....	Near Binford street.....	"	"	L.	17
Maverick street.....	Bet. Bremen and Orleans streets....	E. B.	"	L.	75
Sumner street. ....	Near Orleans street.....	"	"	L.	8
Saratoga street.....	Between Bremen and Pope streets..	"	"	L.	320
" .....	At Bremen street.....	"	"	L.	12
Prescott street.....	" east side of Bremen street.....	"	"	L.	24
	<i>Total, 12-inch.....</i>				<u>5,821</u>
Hayward place.....	At Washington street.....	C. P.	10-in.	H.	2
Columbus avenue (east side).....	" Prentiss street.....	Rox.	"	L.	15
Prentiss street.....	" Columbus avenue.....	"	"	L.	20
Maverick street.....	Bet. Bremen and Orleans streets....	E. B.	"	L.	117
Webster street.....	At Lewis street.....	"	"	L.	14
	<i>Total, 10-inch.....</i>				<u>168</u>
Central street.....	At Atlantic avenue.....	C. P.	8-in.	L.	10
Harrison avenue.....	" Rose street.....	"	"	H.	7
Boylston and Essex streets .....	Across Washington street.....	"	"	H.	255
Avery street.....	At Washington street.....	"	"	H.	4
Union street.....	Bet. Washington and Hanover sts..	"	"	L.	285
Washington street....	" Summer and Milk streets.....	"	"	H.	578
Union street.....	Across Hanover street.....	"	"	L.	31
Merrimac street.....	Bet. Sudbury and Washington sts..	"	"	L.	20
Union street.....	At Haymarket square.....	"	"	L.	100
Congress street.....	Between Milk and Franklin streets,	"	"	L.	173
Prince street.....	" Hanover street and Gar- den-court street.....	"	"	L.	110
North square.....	At North street, opposite No. 33.....	"	"	L.	16
	<i>Carried forward.....</i>				<u>1,589</u>

**Mains Abandoned.—Continued.**

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward.....</i>		.....	.....	1,589
Richmond street.....	At Hanover street.....	C. P.	8-in.	L.	45
Washington street.....	Between No. 342 and No. 348.....	"	"	H.	18
Leon street.....	" Greenleaf and Ruggles sts.	Rox.	"	L.	75
" .....	" " "	"	"	L.	245
Birch street.....	Near Penfield st., at Stony brook....	W. R.	"	H.	5
Grove street.....	" German street.....	"	"	H.	10
Penfield street .....	.....	"	"	H.	10
Anawan avenue.....	At Beech street.....	"	"	H.	35
Arborway.....	" Centre street.....	"	"	H.	47
Penfield street .....	Between Metcalf and Linden sts....	"	"	H.	167
Vaughan street.....	" Blue Hill avenue and Har- vard street.....	Dor.	"	H.	20
Wormwood street.....	At private way.....	S. B.	"	L.	5
" .....	Between private way and railroad tracks.....	"	"	L.	140
" .....	At A street.....	"	"	L.	10
Binford street.....	" " .....	"	"	L.	52
Curtis street.....	Between Chelsea and Pope streets...	E. B.	"	L.	440
Gladstone street .....	From Orienta place .....	"	"	L.	14
	Total, 8-inch.....		.....	.....	<u>2,927</u>
Fiske wharf.....	Off Commercial street.....	C. P.	6-in.	L.	68
Rollins street.....	At Harrison avenue.....	"	"	L.	20
Chickering place.....	" Washington street.....	"	"	H.	4
Traverse street.....	" Canal street....	"	"	L.	12
Market street.....	" " .....	"	"	L.	14
Fulton place.....	" North street .....	"	"	L.	14
Elm street.....	" Washington street.....	"	"	L.	8
Marshall street.....	" Hanover street.....	"	"	L.	7
Thacher street.....	" North Margin street.....	"	"	L.	8
North Margin street...	" Thacher street.....	"	"	L.	8
Lynn street.....	" Cooper and Thacher streets.....	"	"	L.	173
Providence street.....	Between Park sq. and Church st....	"	"	L.	234
Berwick park.....	At Columbus avenue.....	"	"	L.	65
Holyoke street.....	" " .....	"	"	L.	61
Chandler street .....	" " .....	"	"	L.	65
	<i>Carried forward.....</i>	.....	.....	.....	761

	LOCATION.	District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward.....</i>				761
Buckingham street....	At Columbus avenue.....	C. P.	6-in.	L.	73
Clarendon street.....	" " .....	"	"	L.	30
Yarmouth street.....	" " .....	"	"	L.	60
Appleton street.....	" " .....	"	"	L.	100
West Canton street....	Across Columbus avenue.....	"	"	L.	134
Concord square.....	At Columbus avenue .....	"	"	L.	24
Rutland square .....	" " (west side) ...	"	"	L.	57
Massachusetts avenue (north side).....	" east side Columbus avenue.....	"	"	L.	28
Massachusetts avenue (south side).....	" " " .....	"	"	L.	35
Clarendon street.....	Between Tremont street and Warren avenue.....	"	"	L.	380
Parmenter street.....	At Hanover street.....	"	"	L.	28
Washington street....	Between State street and Cornhill ..	"	"	H.	249
Auburn street.....	At Ruggles street.....	Rox.	"	L.	12
Cedar street.....	" Centre street .....	"	"	H.	58
Fort avenue.....	" " .....	"	"	H.	44
La Fayette place.....	" Julian street.....	"	"	H.	8
Davenport street.....	" Tremont street.....	"	"	L.	12
Eustis street.....	Between Albany and Winslow sts..	"	"	L.	175
Greenleaf street.....	" Huntington avenue and Leon street .....	"	"	L.	398
Crowley street.....	At Francis street.....	"	"	L.	53
" .....	" Kenwood road .....	"	"	L.	56
Leon street.....	Between Greenleaf and Ruggles sts..	"	"	L.	327
Marble street.....	At Westminster street.....	"	"	L.	16
Columbus avenue (west side).....	" Prentiss street.....	"	"	L.	12
Avalon road .....	Off Weld street .....	W. R.	"	H.	70
Grover avenue.....	At Neponset avenue.....	"	"	H.	9
Neponset court.....	" " .....	"	"	H.	9
Gilman street.....	Between Sutton and Canterbury sts..	"	"	H.	7
Meehan st. (formerly Stony Brook street).	At Williams street.....	"	"	H.	65
Linden street.....	" Penfield street.....	"	"	H.	22
Amherst street.....	" " .....	"	"	H.	21
	<i>Carried forward.....</i>				3,333

Mains Abandoned. — *Continued.*

LOCATION.	District.	Size.	Nominal Pressure.	Number of Feet.
<i>Brought forward.....</i>				3,333
Rockford street.....	Between Dudley and Clifton streets,	Dor. 6 in.	L.	384
Russ terrace .....	Off Savin Hill avenue.....	" "	H.	24
Rockford street.....	Between Dudley and Clifton streets,	" "	L.	140
Clifton street.....	" Shirley and Rockford sts..	" "	L.	230
Shirley street.....	Across Clifton street. ....	" "	L.	42
Brook avenue.....	Opposite No. 12.....	" "	L.	15
Fenton place.....	At Fenton street.....	" "	L.	7
Maryland street.....	Between Bay st. and Savin Hill ave..	" "	L.	110
Brook-avenue place...	Off Brook avenue.....	" "	L.	98
Longfellow street....	Near Topliff street.....	" "	H.	10
Evans street .....	Between Milton ave. and Capen st..	" "	H.	1,096
Thetford avenue.....	At Evans street.....	" "	H.	31
Stanton street.....	" " .....	" "	H.	30
Dyer street .....	" " .....	" "	H.	32
Fenton place.....	" Greenwich street.....	" "	L.	10
Savin Hill avenue.....	Bet. Evandale ter. and Denny st....	" "	H.	933
Russ terrace.....	Off Savin Hill avenue.....	" "	H.	114
Silver street.....	Between A and B streets (over railroad bridge).....	S. B. "	L.	36
K street.....	Between Fourth and Sixth streets..	" "	L.	643
Beckler avenue.....	At K street.....	" "	L.	36
Fifth street .....	Across K street.....	" "	L.	77
Sixth street.....	" " .....	" "	L.	80
Lewis street.....	At Webster street. ....	E. B. "	L.	8
Bremen street.....	Between Saratoga street and Glen-don place .....	" "	L.	338
" .....	At Curtis street.....	" "	L.	36
Pope street.....	Across Curtis street.....	" "	L.	62
Saratoga street.....	Between Meridian and Shelby sts...	" "	L.	3,550
Bremen street.....	" Bennington and Putnam streets .....	" "	L.	1,185
Prescott street .....	At east side of Bremen street.....	" "	L.	4
Spice street.....	Between Cambridge street and railroad tracks.....	Chsn. "	L.	460
Driveway between freight houses 26 and 27 in B. & M. Rutherford avenue yard....	Between Rutherford avenue and railroad tracks.....	" "	L.	250
	Total, 6-inch.....			13,404

**Mains Abandoned.—Concluded.**

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Fiske wharf.....	Off Commercial street.....	C. P.	4-in.	L.	340
Park square.....	Between Boylston and Eliot streets.	"	"	L.	287
Providence street.....	" Park square and Church street.....	"	"	L.	234
Bay street.....	From Fayette street.....	"	"	L.	113
Florence street.....	Between Washington street and Harrison avenue .....	"	"	L.	349
Wilkes street.....	Between Washington and Bradford streets.....	"	"	L.	235
Lynn street.....	Bet. Cooper and Thacher streets....	"	"	L.	150
Thacher court.....	From Thacher street.....	"	"	L.	165
Mechanic street.....	At Hanover street.....	"	"	L.	5
Chickering place.....	" Washington street.....	"	"	H.	14
Glenwood street .....	" Warren street .....	Rox.	"	H.	10
Codman park .....	From Townsend street... .....	"	"	H.	680
Codman Hill street....	Between Codman Park and Washington street..... .....	"	"	H.	290
Brookside avenue.....	At Green street.....	W. R	"	H.	220
Leonard court .... ...	" Leonard street .....	Dor.	"	L.	8
Mishawum street.....	" Main street ... .....	Chsn.	"	L.	28
	Total, 4-inch.....				<u>3,128</u>
Rockford street.....	Between Dudley and Clifton streets,	Dor.	3-in.	L.	464

Table showing Length of Distribution Mains Laid and Abandoned during the Year 1906, and the Total Length of the Distribution System of the City of Boston January 31, 1907.

	DIAMETER OF MAINS IN INCHES.										Totals.						
	48	42	40	36	30	28	24	20	16	12		10	8	6	4	3	2
Total connected with system January 31, 1906....	33,494	16,813	23,104	43,276	89,137	244	78,340	95,163	139,934	1,178,758	142,586	592,167	1,309,690	71,871	6,709	5,328	3,886,614
Length laid during the year.....	1,558	.....	100	1,554	.....	1,701	39	4,119	26,486	11,766	17,610	3,087	23	.....	3,264	71,307	
Length abandoned during the year.....	.....	.....	1,545	.....	2,593	546	1,101	5,821	168	2,927	13,404	3,128	464	.....	31,697		
Total connected with system January 31, 1907....	35,032	16,813	23,104	43,376	89,146	244	77,448	94,656	202,952	1,199,423	154,184	606,850	1,299,373	68,766	6,245	8,592	3,926,224 ft. or 743.6 miles

## WATER DEPARTMENT.

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Statement of Hydrant, Blow-off and Reservoir Pipes January 31, 1907.

Main Gates Established and Abandoned during the Year, and Number in System January 31, 1907.

**Private Gates.**

	DIAMETER IN INCHES.	Totals.	
		10	
Established during the year.....	2	2	
Abandoned during the year.....	—	—	
Increase .....	2	2	

**Blow-off Gates.**

	DIAMETER IN INCHES.			Totals.
	4	6	12	
Established during the year.....	2	5	.....	7
Abandoned during the year .....	2	3	2	7
Increase (+) or decrease (—). ....		+2	-2	

**Hydrant Gates.**

	DIAMETER.		Totals:
	6	8	
Total number in system, January 31, 1906....	11	.....	11
Established during the year.....	9	10	19
Abandoned during the year.....	.....	.....	.....
Total number in system, January 31, 1907,	20	10	30

**Private Hydrant Gates.**

	DIAMETER.	Totals.	
		6 Inches.	
Total number in system January 31, 1906.....	1		1
Established during the year.....			
Abandoned during the year.....			
Total number in system January 31, 1907.....	1		1

**Hydrants Established and Abandoned during the Year.**

	ESTABLISHED.					ABANDONED.					
	Lowry.	Boston Lowry.	Ordinary Post.	Bachelder Post.	Totals.	Lowry.	Boston Lowry.	Ordinary Post.	Bachelder Post.	Boston.	Totals.
City Proper (public).....	13	2	1	16	32	25	1	....	1	4	31
"      (private).....	....	....	....	....	....	....	....	....	....	1	1
Roxbury (public).....	....	8	....	23	31	10	7	1	2	1	21
"      (private).....	....	....	....	1	1	....	....	....	1	....	1
West Roxbury (public).....	1	10	2	27	40	2	12	4	5	....	23
Brighton (public).....	1	3	....	2	6	....	2	....	....	....	2
Dorchester (public).....	4	21	1	26	52	6	15	8	2	....	31
"      (private).....	....	....	....	3	3	....	....	1	....	....	1
South Boston (public).....	....	....	....	10	10	3	1	2	2	....	8
East Boston (public).....	....	5	1	18	24	5	2	9	1	....	17
Charlestown (public).....	4	1	....	14	19	1	....	....	....	....	1
"      (private).....	....	....	1	....	1	....	....	....	....	....	....
Total number of public.....	23	50	5	136	214	52	40	24	13	5	134
Total number of private.....	....	....	1	4	5	....	....	1	1	1	3

**Total Number of Hydrants Connected with Distribution System,  
January 31, 1907.**

	Lowry.	Boston Lowry.	Ordinary Post.	Bachelder Post.	Boston.	Smith.	Totals.
City Proper (public).....	619	49	257	433	117	.....	1,475
"      (private).....	4	.....	10	4	41	.....	59
Roxbury (public).....	495	93	437	244	41	.....	1,310
"      (private).....	2	1	.....	3	10	.....	16
West Roxbury (public).....	107	237	652	111	29	.....	1,136
"      (private).....	.....	.....	15	.....	1	.....	16
Brighton (public).....	74	88	391	27	20	.....	600
"      (private).....	.....	.....	7	.....	2	.....	9
Dorchester (public).....	415	243	967	243	28	.....	1,896
"      (private).....	.....	1	3	4	4	.....	12
South Boston (public).....	195	31	145	185	42	1	599
"      (private).....	3	.....	15	.....	28	.....	46
East Boston (public).....	119	32	184	82	7	.....	424
"      (private).....	8	.....	7	.....	25	.....	40
Charlestown (public).....	170	38	33	89	2	.....	332
"      (private).....	14	1	37	.....	6	.....	58
Deer Island (private).....	.....	.....	20	.....	.....	.....	20
Long Island (private).....	.....	.....	7	.....	.....	.....	7
Thompson's Island (private).....	.....	.....	2	.....	.....	.....	2
Gallop's Island (private).....	.....	.....	1	.....	1	.....	2
Rainsford Island (private).....	.....	3	1	.....	1	.....	5
Quincy.....	.....	1	11	.....	.....	.....	12
Brookline.....	.....	2	.....	.....	.....	.....	2
<b>Total number of public hydrants.....</b>	<b>2,194</b>	<b>811</b>	<b>3,066</b>	<b>1,414</b>	<b>286</b>	<b>1</b>	<b>7,772</b>
<b>Total number of private and suburban hydrants.....</b>	<b>31</b>	<b>9</b>	<b>136</b>	<b>11</b>	<b>119</b>	.....	<b>306</b>

**Water Posts.****LOCATION OF WATER POSTS ESTABLISHED AND ABANDONED DURING THE YEAR.***Established.*

Belgrade avenue, opposite Penfield street, West Roxbury.  
 Belgrade avenue, opposite Rexhame street, West Roxbury.  
 Centre street, at Stimson street, West Roxbury.  
 First street, near Q street, South Boston.  
 Hillside street, opposite Sunset street, Roxbury.  
 Talbot avenue, near Washington street, Dorchester.  
 Washington street, near Cornwall street, West Roxbury.

*Abandoned.*

Atlantic avenue, at Commercial street, City Proper.  
 Hillside street, near Wait street, Roxbury.  
 Penfield street, opposite Amherst street, West Roxbury.  
 Q street, near Third street, South Boston.  
 Washington street, near Cornwall street, West Roxbury.  
 Washington street, at Norfolk street, Dorchester.

**Table Showing Total Number of Water Posts Connected with System, January 31, 1907.**

DISTRICTS.	Number connected with System, January 31, 1906.	Established during the Year.	Abandoned during the Year.	Number connected with System, January 31, 1907.
City Proper.....	77	.....	1	76
Roxbury.....	81	1	1	81
West Roxbury.....	97	4	2	99
Brighton.....	54	.....	.....	54
Dorchester.....	108	1	1	108
South Boston.....	40	1	1	40
East Boston.....	44	.....	.....	44
Charlestown .....	22	.....	.....	22
<b>Totals.....</b>	<b>523</b>	<b>7</b>	<b>6</b>	<b>524</b>

### Fountains

*Style.*

*Established during the Year.*

- A. Hyde Park avenue, at Blakemore street, West Roxbury.
- \*G. Mattapan square, at New York, New Haven & Hartford Railroad Depot, Dorchester.
- C. Stoughton street, at Columbia road, Dorchester.

*Abandoned during the Year.*

- C. Boston Common, Park square entrance, City Proper.
- A. Junction Malden and Wareham streets, City Proper.
- D. South street, at Morton street, West Roxbury.

\*This fountain was erected and given to the city by Horatio W. Lamb.

### Number of Fountains in Service January 31, 1907.

DISTRICTS.	Style A.	Style B.	Style C.	Style D.	Style E.	Style F.	Style G.	Totals.
City Proper.....	9	4	7	.....	12	.....	.....	32
Roxbury .....	9	3	2	.....	5	.....	.....	19
West Roxbury.....	5	1	.....	1	2	.....	.....	9
Brighton.....	5	.....	1	.....	.....	.....	.....	6
Dorchester.....	.....	2	1	1	.....	8	1	13
South Boston.....	3	1	3	.....	4	.....	.....	11
East Boston.....	.....	4	3	.....	4	.....	.....	11
Charlestown .....	1	3	.....	.....	4	.....	.....	8
<b>Totals ...</b>	<b>32</b>	<b>18</b>	<b>17</b>	<b>2</b>	<b>31</b>	<b>8</b>	<b>1</b>	<b>109</b>

*Style.*

*NOTE.*

- A. Indicates fountains for man and beast, with automatic fixtures for man and beast in warm weather, and a continuous flow of water for beasts in cold weather.
- . Indicates fountains for beasts only. Continuous flow of water all the year.
- C. Indicates fountains for man only. Automatic fixtures. In service during warm weather only.
- D. Indicates fountains for man and beast. Automatic fixtures for both. In service during warm weather only.
- E. Indicates cold water fountains for man only. Automatic fixtures. In service during warm weather only.
- F. Indicates fountains for man and beast, with automatic fixtures for man in warm weather, and a continuous flow of water for beasts all the year.
- G. Indicates fountains for man and beast. Hygienic "bubble" fixtures for man. Continuous flow of water for man and beast all the year.

**Air Cocks.***Established.*

LOCATION.	District.	Diameter of Main.	Nominal Pressure.	Size of Air Cock.
Tremont street, at Massachusetts avenue, southerly side of south gate on the line . . . . .	C. P.	30-in.	Low	2-in.
Washington street, at State street..... . . . .	"	24-in.	"	"
Hanover street, at Union street..... . . . .	"	"	"	"
Longwood avenue, opposite No. 190..... . . . .	Rox.	48-in.	"	"
Tremont street, at Burke street..... . . . .	"	30-in.	"	"
Centre street, at Cedar street..... . . . .	"	24 in.	High	"
Bennington st., at Neptune-road bridge, B. & A. R.R.	E. B.	12-in.	Low	1½-in.
Neponset bridge, 4 feet south of connection between 6-foot and 12-inch lines..... . . . .	Quincy	"	High	"
Neponset bridge, 3 feet north of 6-inch gate..... . . . .	"	6-in.	"	"
Neponset bridge, 3 feet south of 6-inch gate..... . . . .	"	"	"	"

*Abandoned.*

Washington street, at No. 177..... . . . .	C. P.	24-in.	Low	1-in.
Centre street, at Cedar street..... . . . .	Rox.	"	High	"

**Blow-offs.***Established.*

LOCATION.	District.	Diameter of Main.	Nominal Pressure.	Size of Gate or Cock Controlling Blow-off.
Clarendon st., at Tremont st. (in Tremont st.).....	C. P.	12-in.	Low	6-in.
Milk street, opposite No. 163.....	"	"	"	"
Park square, opposite No. 9A.....	"	"	"	4-in.
Hewes street, near Rockland street .....	Rox.	6-in.	High	1½-in.
Gardner street, 231 feet from post hydrant .....	W. R.	12-in.	"	6-in.
Chelsea street, opposite No. 139.....	Chsn.	24-in.	Low	"
Chelsea street, opposite No. 139.....	"	20-in.	"	"
Main street, at Mishawum street.....	"	6-in.	"	4-in.
Hancock street, at southerly end of Neponset bridge..	Quincy	"	High	¾-in.

*Abandoned.*

Tremont street, at Camden street.....	C. P.	30-in.	Low	12-in.
India street and Milk street.....	"	12-in.	"	4-in.
Under Chelsea bridge at pier No. 2 (under freight house No. 45).....	Chsn.	24-in.	"	6-in.
Chelsea street, opposite No. 190.....	"	"	"	"
Chelsea street, opposite No. 190 .....	"	20-in.	"	"
Chelsea street, at Medford street .....	"	16-in.	"	12-in.
Main street, at Mishawum street.....	"	4-in.	"	4-in.

**Fire Reservoirs.**

Connections with Boston Water Department system abandoned at :  
 Church street, at Fayette street, City Proper.  
 Thacher street, at North Margin street, City Proper.  
 Saratoga street, opposite No. 27, East Boston.

**Deacon Meters.***Established.*

One Deacon Meter and one 2-inch Testing Meter at Mt. Bellevue stand-pipe, Mt. Bellevue, West Roxbury.

## WATER DEPARTMENT.

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## Statement of Service Pipes Laid and Abandoned During Year Ending January 31, 1907.

SIZES OF SERVICES LAID AND ABANDONED		CITY PROPER.	ROXBURY.	WEST ROXBURY.	BRIGHTON.	DOR- CHESTER.	SOUTH BOSTON.	CHARLES- TOWN.		TOTAL.
								Length in Feet.	Number of Services.	
8-inch laid.....	1	6	1	24	1	27	1	36	1	42
6-inch laid.....	20	509	4	65	1	14	14	36	2	141
4-inch laid.....	3	61	1	24	1	12	1	265	2	837
" abandoned.....	11	189	1	24	1	12	1	19	1	4
3-inch laid.....	4	48	7	237	1	21	2	87	1	4
2-inch laid.....	23	530	2	121	1	55	2	35	4	301
" abandoned.....	5	118	3	78	2	39	1	28	3	5
1½-inch laid.....	25	706	3	60	1	16	1	51	1	69
" abandoned.....	3	102	3	60	1	16	1	59	1	398
1¼-inch laid.....	4	135	1	39	1	12	1	8	1	37
" abandoned.....	1	17	1	34	1	12	1	38	1	35
1-inch laid.....	54	1,475	10	342	3	88	2	37	3	33
" abandoned.....	11	213	1	16	3	86	3	101	2	10
¾-inch laid.....	56	574	1	16	3	56	1	30	1	44
" abandoned.....	9	588	1	13	1	53	1	97	1	30
½-inch laid.....	93	1,824	91	2,441	132	3,159	1	15	1	12
" abandoned.....	113	2,294	14	379	2	43	5	2,255	1	46
¼-inch laid.....	3	56	2	43	1	101	1	15	1	34
" abandoned.....	1	3	1	1	1	1	1	1	1	1
Total Laid.....	257	5,948	119	3,296	141	3,427	59	1,364	74	2,511
Total Abandoned.....	152	3,497	24	636	3	25	5	101	18	1,734
Net Increase.....	106	2,451	95	2,600	138	3,402	54	1,263	56	1,213

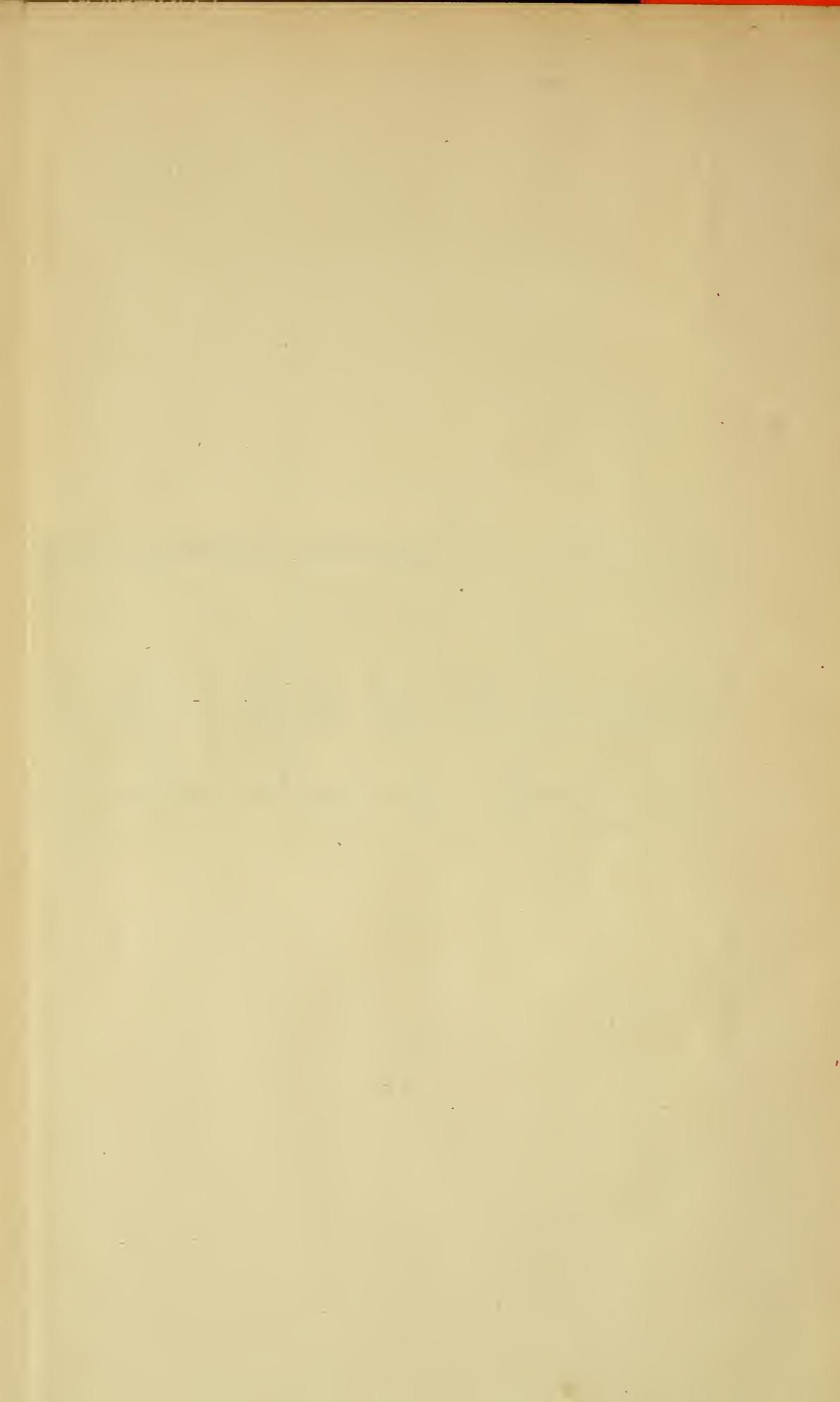
889  
20,452

**Maintenance Work of Miscellaneous Character Performed  
During the Year Ending January 31, 1907.**

		Total number during the year.
Boxes covering main pipe on bridges repaired . . . . .		23
Brick gate chambers built, replacing wooden boxes . . . . .		8
Brick gate chambers built around new gates . . . . .		2
Deacon meter boxes renewed . . . . .		10
Dead ends blown off . . . . .		513
Fire reservoir covers renewed . . . . .		5
Fountain repairs . . . . .		224
Fountains and troughs cleaned and inspected . . . . .		3,962
Gate box covers salted in cold weather . . . . .		6,702
Gate box frames and covers renewed . . . . .		372
Gate boxes cleaned of mud, water and snow . . . . .		1,708
Gate boxes inspected . . . . .		482
Gate boxes raised or lowered . . . . .		385
Gate boxes renewed . . . . .		297
Gate boxes repaired . . . . .		383
Gates in service oiled and tested for general efficiency . . . . .		453
Gates inspected . . . . .		824
Gates renewed on account of deterioration . . . . .		8
Gates repaired . . . . .		103
Hydrant barrels changed on account of street grading . . . . .		37
Hydrant barrels changed for various reasons . . . . .		84
Hydrant box frames and covers renewed . . . . .		148
Hydrant boxes cleaned of mud, water and snow . . . . .		1,073
Hydrant boxes raised or lowered . . . . .		133
Hydrant boxes renewed . . . . .		382
Hydrant boxes repaired . . . . .		264
Hydrant cap chains repaired . . . . .		369
Hydrant caps changed from old to new style . . . . .		40
Hydrant inspections in cold weather . . . . .		160,786
Hydrant nipples recut to change thread . . . . .		414
Hydrants hayed in cold weather . . . . .		106
Hydrants numbered . . . . .		4,790
Hydrants in service oiled and tested for general efficiency . . . . .		3,331
Hydrants painted . . . . .		843
Hydrants repaired . . . . .		313
Hydrants thawed out . . . . .		208
Investigations made where further action on part of Water Department was unnecessary . . . . .		841
Locations of gates marked . . . . .		8,718
Main pipe repairs, caused by :		
Blasting . . . . .		7
Broken pipe . . . . .		13
Burst pipe . . . . .		7
Frost . . . . .		21
Joints blown out . . . . .		2

Total Number and Aggregate Length of Service Pipes of Various Sizes Connected with Distribution System, January 31, 1907.

Number of Services	Length in Feet	12 Inch	10 Inch	8 Inch	6 Inch	4 Inch	3 Inch	2 Inch	1 1/2 Inch	1 Inch	4-Inch	3-Inch	2-Inch	1-Inch	4-Inch	3-Inch	2-Inch	1-Inch	4-Inch	3-Inch	2-Inch	1-Inch	Totals																												
1	Length in Feet	Number of Services	1	Length in Feet	Number of Services	1	Length in Feet	Number of Services	1	Length in Feet	Number of Services	1	Length in Feet	Number of Services	1	Length in Feet	Number of Services	1	Length in Feet	Number of Services	1	Length in Feet	Number of Services	1	Length in Feet	Number of Services																									
0			0			0			0			0			0			0			0			0																											
14	3,942	Length in Feet	1	1,345	Length in Feet	23	Length in Feet	21,020	Length in Feet	141	Length in Feet	1,090	Length in Feet	14,198	Length in Feet	692	Length in Feet	21,225	Length in Feet	1,703	Length in Feet	68,107	Length in Feet	1,318	Length in Feet	46,193	Length in Feet	311	Length in Feet	10,069	Length in Feet	2,438	Length in Feet	127,512	Length in Feet	2,456	Length in Feet	87,671	Length in Feet	76,311	Length in Feet	2,169,786	Length in Feet	7,029	Length in Feet	160,092	Length in Feet	18,192	Length in Feet	3,471,97	Length in Feet



	Total number during the year.
Main pipe repairs, caused by :	
Joints drawn . . . . .	24
Joints leaking . . . . .	54
No cause assigned . . . . .	199
Operations of Boston Transit Commission . . . . .	16
Operations of Boston Consolidated Gas Company . . . . .	1
Pick-hole . . . . .	2
Settlement . . . . .	31
Vibration . . . . .	3
Old castings cleaned and painted . . . . .	85
Pavement repairs . . . . .	1,217
Salt (sacks of) purchased and delivered to Fire Department . . . . .	2,461
Service pipe repairs, caused by :	
Blasting . . . . .	6
Broken by foundation wall . . . . .	18
Broken by steam-roller . . . . .	12
Defective couplings . . . . .	89
Defective joints . . . . .	52
Defective packing . . . . .	15
Defective pipes . . . . .	268
Eaten by ashes . . . . .	7
Eaten by earth . . . . .	1
Eaten by lime . . . . .	2
Electrolytic action . . . . .	22
Frost (natural) . . . . .	39
Frost (artificial) . . . . .	5
Gnawed by rats . . . . .	8
Main cocks required renewal . . . . .	126
Main uprights required renewal . . . . .	88
Operations of Boston Consolidated Gas Company . . . . .	38
Operations of Boston Elevated Railway Company . . . . .	26
Operations of Boston Transit Commission . . . . .	104
Operations of Edison Electric Illuminating Company, . . . . .	10
Operations of New England Telephone and Telegraph Company . . . . .	20
Operations of Sewer Department and its agents . . . . .	109
Pipe stolen . . . . .	2
Settlement of earth . . . . .	213
Settlement of service boxes on pipes . . . . .	33
Sidewalk cocks missing . . . . .	60
Sidewalk cocks required renewal . . . . .	196
Sidewalk cocks, old style . . . . .	83
Sidewalk uprights above and below grade . . . . .	1,436
Sidewalk uprights in way of edgestones . . . . .	12
Sidewalk uprights required renewal . . . . .	395
Stopped by dirt . . . . .	148
Stopped by fish . . . . .	16
Stopped by gasket . . . . .	6

	Total number during the year.
Service pipe repairs, caused by :	
Stopped by rust . . . . .	319
Stopped by pick . . . . .	85
Worn out . . . . .	9
Service pipes changed from tin-lined to all lead . . . . .	13
Service pipes extended on account of street widening . . . . .	2
Service pipes equipped with drip cocks to prevent freezing . . . . .	20
Service pipes lowered as a protection from frost . . . . .	1
Service pipes lowered on account of change in street grade . . . . .	1
Service pipes moved from way of various corporations . . . . .	16
Service pipes shut off and let on to permit owners to make repairs . . . . .	719
Sidewalk cocks and uprights given to individuals to apply to private pipes . . . . .	15
Sidewalk uprights inspected . . . . .	40,613
Temperature of water in cold water fountains taken in summer season . . . . .	1,946
Water post repairs of various kinds . . . . .	379
Water posts shut off and let on during cold weather . . . . .	1,069

**Statement of Stock Manufactured from the Rough in the  
Machine Shop, Blacksmith Shop and Carpenter Shop  
During the Year Ending January 31, 1907.**

MACHINE AND BLACKSMITH SHOPS.

Bolts:		Hydrant wastes . . . . .	531
Lowry hydrant . . . . .	12	Jointers:	
Boston Lowry hydrant . .	104	4-inch . . . . .	9
Post hydrant . . . . .	701	6 " . . . . .	26
Lowry hydrant extension,	5	8 " . . . . .	18
Post hydrant extension .	3	10 " . . . . .	16
Hoop . . . . .	24	12 " . . . . .	18
Air cock . . . . .	236	16 " . . . . .	5
		20 " . . . . .	3
Eye bolts:		24 " . . . . .	2
1-inch . . . . .	23	30 " . . . . .	3
1½ " . . . . .	2	36 " . . . . .	1
Cocks, air:		Nipples, main:	
2-inch . . . . .	11	1½-inch . . . . .	50
Cocks, angle:		2 " . . . . .	28
½-inch . . . . .	122	Nipples, meter:	
Cocks, corporation:		½-inch . . . . .	53
½-inch . . . . .	1,714	1 " . . . . .	27
¾ " . . . . .	85	2 " . . . . .	20
1 " . . . . .	100	Nipples, solder:	
1½ " . . . . .	101	¾-inch . . . . .	88
Cocks, puddling head:		1 " . . . . .	89
1½-inch . . . . .	2	2 " . . . . .	50
Cocks, sidewalk:		Nuts, combination:	
½-inch . . . . .	1,530	1-inch . . . . .	10
1 " . . . . .	75	Nuts, coupling:	
Cocks, tee:		½-inch . . . . .	237
½-inch . . . . .	8	¾ " . . . . .	7,045
Cocks, water post:		½ " . . . . .	289
1½-inch . . . . .	13	1 " . . . . .	378
2 " . . . . .	200	1½ " . . . . .	210
Couplings, bent:		2 " . . . . .	83
1½-inch . . . . .	25	Pins, gate . . . . .	5,210
Couplings, combination:		Plugs, iron:	
¾-inch . . . . .	105	½-inch . . . . .	120
1 " . . . . .	63	1 " . . . . .	1
1½ " . . . . .	50	1¼ " . . . . .	1
2 " . . . . .	37	1½ " . . . . .	4
Couplings, male:		Reducers, meter:	
½-inch . . . . .	1,155	¾-inch . . . . .	330
1 " . . . . .	118	1 " . . . . .	100
1½ " . . . . .	120	Set screws:	
2 " . . . . .	50	½-inch . . . . .	598
Gates:		1 " . . . . .	262
3-inch . . . . .	13	Sidewalk bushings . . . . .	1,295
4 " . . . . .	34	Tubes, bent:	
6 " . . . . .	2	1-inch . . . . .	12
6 " by-pass . . . . .	6	1½ " . . . . .	13
8 " . . . . .	71	Tubes, coupling:	
10 " . . . . .	46	½-inch . . . . .	6,419
12 " . . . . .	78	¾ " . . . . .	607
16 " . . . . .	20	1 " . . . . .	110
24 " . . . . .	2	1½ " . . . . .	256
Hydrants:		2 " . . . . .	87
Bachelder post . . . . .	142		
Boston Lowry . . . . .	12		
Lowry . . . . .	33		

## CARPENTER SHOP.

Boxes:		Box pieces:	
Boston hydrant . . . . .	12	Gate box, small—	
Boston Lowry hydrant . . . . .	61	2-inch . . . . .	682
Deacon meter . . . . .	9	3 " . . . . .	279
Gate, large . . . . .	1	4 " . . . . .	140
Gate, small . . . . .	600	6 " . . . . .	20
Lowry hydrant . . . . .	124	9 " . . . . .	40
Post hydrant . . . . .	500	10 " . . . . .	10
Box pieces:		Lowry hydrant—	
Boston hydrant—		1-inch . . . . .	650
1-inch . . . . .	40	2 " . . . . .	338
2 " . . . . .	12	3 " . . . . .	180
3 " . . . . .	6	4 " . . . . .	25
4 " . . . . .	6	6 " . . . . .	26
10 " . . . . .	3	9 " . . . . .	10
Gate box, large—		Box tops:	
1-inch . . . . .	125	Gate, large . . . . .	24
2 " . . . . .	50	Gate, small . . . . .	125
Gate box, small—		Lowry . . . . .	76
1-inch . . . . .	825	Posts . . . . .	112

## OLD STOCK RENOVATED BY MACHINE AND BLACKSMITH SHOPS.

Bolts:		Gates:	
Boston Lowry hydrant . . . . .	39	8-inch . . . . .	6
Lowry hydrant . . . . .	125	10 " . . . . .	2
Post hydrant . . . . .	26	12 " . . . . .	11
Cocks, corporation:		16 " . . . . .	1
$\frac{1}{2}$ -inch . . . . .	9	20 " . . . . .	1
$\frac{5}{8}$ " . . . . .	36	24 " . . . . .	2
$\frac{3}{4}$ " . . . . .	7	Smith . . . . .	5
1 " . . . . .	12	Hydrants:	
$1\frac{1}{2}$ " . . . . .	6	Boston . . . . .	7
$1\frac{1}{2}$ " . . . . .	10	Boston Lowry . . . . .	45
$\frac{5}{8}$ -inch . . . . .	45	Lowry . . . . .	67
$\frac{3}{4}$ " . . . . .	3	Posts . . . . .	32
1 " . . . . .	2	Hydrant wastes . . . . .	75
Cocks, sidewalk:		Nipples, solder:	
$\frac{5}{8}$ -inch . . . . .	45	$\frac{3}{4}$ -inch . . . . .	1
$\frac{3}{4}$ " . . . . .	3	$1\frac{1}{2}$ " . . . . .	2
1 " . . . . .	2	2 " . . . . .	6
Cocks, tee:		Nuts, coupling:	
1-inch $\times \frac{5}{8}$ -inch . . . . .	6	$\frac{5}{8}$ -inch . . . . .	430
Cocks, water post:		1 " . . . . .	30
$1\frac{1}{2}$ -inch . . . . .	13	$1\frac{1}{4}$ " . . . . .	4
2 " . . . . .	200	$1\frac{1}{2}$ " . . . . .	21
Couplings, male:		2 " . . . . .	15
$\frac{1}{2}$ -inch . . . . .	1	Tubes, coupling:	
$\frac{5}{8}$ " . . . . .	64	$\frac{5}{8}$ -inch . . . . .	595
$\frac{3}{4}$ " . . . . .	8	$\frac{3}{4}$ " . . . . .	7
1 " . . . . .	5	1 " . . . . .	8
$1\frac{1}{2}$ " . . . . .	3	$1\frac{1}{4}$ " . . . . .	1
2 " . . . . .	1	$1\frac{1}{2}$ " . . . . .	8
Gates:		2 " . . . . .	6
3-inch . . . . .	3		
4 " . . . . .	10		
6 " . . . . .	18		

In addition to the foregoing, the machine, carpenter, paint, plumbing and blacksmith shops performed much work of miscellaneous nature in the maintenance and improvement

of the property of the Water Department. Some of the important items are as follows:

	Total Cost.
Sharpened 20,577 picks, 1,909 bars and 1,884 chisels,	\$1,325 74
Repaired tools of all kinds . . . . .	1,289 86
Repairs of various kinds in and around shops . . . . .	1,125 79
Made 825 tools of various kinds . . . . .	1,111 71
Made repairs in stables throughout department . . . . .	1,068 74
Repaired and painted wagons, carriages and sleighs . . . . .	1,014 20
Made 133 new patterns . . . . .	813 20
Painting and whitewashing offices and machine shops,	406 44
Repairing property at East Boston and Charlestown . . . . .	267 24
Fitting up new off and on quarters . . . . .	231 45
Repaired 21 patterns . . . . .	171 87
Repairs at reservoirs . . . . .	165 58
Odd jobs for Engineering Department . . . . .	151 13
Made 609 wooden plugs . . . . .	113 31

## REPORT OF THE ENGINEER.

CITY OF BOSTON,  
ENGINEERING DEPARTMENT,  
50 CITY HALL, January 31, 1907.

WILLIAM J. WELCH, Esq.,  
*Water Commissioner:*

DEAR SIR,—A large part of the work done during the past year was of a routine character. In order to decrease the excessive loss of head existing on the low service between Chestnut Hill reservoir and the city proper it was decided to lay a 48-inch main from the 30-inch and 36-inch mains in Tremont street, via Prentiss street and Longwood avenue, to connect with the 40-inch main in Brookline avenue, and thence to extend it in the near future to connect with the 48-inch main in Beacon street, Brookline, at Coolidge Corner. A beginning was made on this work during the year by laying 1,462 feet of 48-inch pipe in Longwood avenue, westerly from Huntington avenue.

The work of replacing the old 30-inch main in Tremont street, begun in 1903, was continued, and 568 feet of pipe was laid from Kendall street to a point near Burke street, where the old pipe was found to be in good condition. The old 30-inch main from Massachusetts avenue to Burke street was abandoned.

A large amount of miscellaneous work was done in connection with the construction of the subway in Washington street; it was necessary to abandon the 24-inch main in Union street, Haymarket square and Merrimac street, from Hanover street to Canal street, and the 20-inch main in Washington street North, from Union street to Stillman street; to replace these pipes a 30-inch pipe was laid from the 30-inch main in Traverse street, via Haverhill street, Stillman street and Endicott street, to Cross street, where a 30-inch branch was left for a future extension; from this point a 24-inch pipe was laid in Endicott street to Hanover street and the old 24-inch pipe in Hanover street was relaid. The 24-inch main in Washington street was relaid from State street to Adams square. All of these large mains, abandoned on account of the subway construction, were a part of the original distribution system.

Considerable progress was made in the work of extending the high and low service systems to the South Boston flats, 226 feet of 24-inch and 959 feet of 16-inch pipe being laid, principally in Congress street.

The work of increasing the supply of water for fire purposes was continued, and improvements in this line were made in different parts of the city, notably in Charlestown, where about one mile of 12-inch pipe, supplying hydrants, was laid in the yards of the Boston & Maine Railroad, west of Rutherford avenue; this work has greatly lessened the serious danger which threatened Charlestown from fires originating in the Boston & Maine Railroad freight sheds, which extend along Rutherford avenue from the State Prison almost to Cambridge street.

A 2-inch lead pipe, laid in 1895 from Moon Island to Long Island, was taken up and was laid between Long and Rainsford Islands to serve as an emergency pipe, as the existing 4-inch flexible pipe had failed several times.

Electrical investigations have been continued, and additional evidence has been found that serious damage is being done to the water pipe system by electrolysis.

Respectfully submitted,

WILLIAM JACKSON,  
*City Engineer.*

## Monthly Rainfall in Inches During 1906 in Various Places in Eastern Massachusetts.

Average Stated Monthly Heights, in Feet, above City Base, to which Water Rose at Different Stations, on the Boston Water Works.



## GENERAL STATISTICS.

## BOSTON WATER DEPARTMENT.

Daily average amount used (gallons) . . . . .	90,951,800
Daily Average amount used through meters during 1906 (gallons) . . . . .	21,055,600
Number of services February 1, 1907 . . . . .	93,202
Number of meters in service February 1, 1907 .	5,084
Number of motors under supervision February 1, 1907 . . . . .	120
Number of elevators under supervision February 1, 1907 . . . . .	591
Length of supply and distributing mains in miles February 1, 1907 . . . . .	743.6
Number of public hydrants in use February 1, 1907 . . . . .	7,772
Yearly revenue from annual water rates (assessed) . . . . .	\$1,350,188.41
Yearly revenue from metered water (assessed),	\$1,173,696.71
Percentage of total revenue from metered water,	46.51
Yearly expense of maintenance . . . . .	\$532,189.38

<sup>1</sup>BOSTON WATER BOARD.

ORGANIZED JULY 31, 1876.

- \*TIMOTHY T. SAWYER, from July 31, 1876, to May 5, 1879; and from May 1, 1882, to May 4, 1883.  
 \*LEONARD R. CUTTER, from July 31, 1876, to May 4, 1883.  
 \*ALBERT STANWOOD, from July 31, 1876, to May 7, 1883.  
 \*FRANCIS THOMPSON, from May 5, 1879, to May 1, 1882.  
 WILLIAM A. SIMMONS, from May 7, 1883, to August 18, 1885.  
 GEORGE M. HOBBS, from May 4, 1883, to May 4, 1885.  
 JOHN G. BLAKE, from May 4, 1883, to August 18, 1885.  
 WILLIAM B. SMART, from May 4, 1885, to March 18, 1889.  
 \*HORACE T. ROCKWELL, from August 25, 1885, to April 25, 1888.<sup>3</sup>  
 THOMAS F. DOHERTY, from August 26, 1885,<sup>1</sup> to May 5, 1890; and from May 4, 1891, to July 1, 1895.  
 ROBERT GRANT, from April 25, 1888, to July 17, 1893.<sup>3</sup>  
 PHILIP J. DOHERTY, from March 18, 1889, to May 4, 1891.  
 \*JOHN W. LEIGHTON, from May 5, 1890, to July 1, 1895.  
 WILLIAM S. McNARY, from August 15, 1893, to November 5, 1894.<sup>3</sup>  
 CHARLES W. SMITH, from January 23, 1895, to July 1, 1895.

<sup>1</sup>WATER COMMISSIONERS.

- CHARLES W. SMITH, from July 1, 1895, to January 20, 1896.<sup>3</sup>  
 JEREMIAH J. McCARTHY (Acting), from January 20, to February 1, 1896.  
 JOHN R. MURPHY, from February 1, 1896, to October 17, 1899.<sup>3</sup>  
 BENJAMIN W. WELLS (Acting), from October 17, 1899, to December 28, 1899.  
 \*AUGUSTUS P. MARTIN, from December 28, 1899, to March 13, 1902.<sup>2</sup>  
 JAMES DONOVAN (Acting), from March 14 to 17, 1902.  
 EUGENE S. SULLIVAN, from March 17, 1902, to January 11, 1906.<sup>3</sup>  
 WILLIAM JACKSON (Acting), from January 11, 1906, to March 1, 1906.  
 WILLIAM J. WELCH, from March 1, 1906, to present time.

*Assistant Water Commissioners.*

- JEREMIAH J. McCARTHY, from July 1, 1895, to January 20, 1896.  
 EDWARD C. ELLIS, from February 17, 1896, to November 1, 1900.  
 \*MELVIN P. FREEMAN, from February 7, 1900, to March 9, 1902.<sup>3</sup>  
 WILLIAM H. OAKES, from November 1, 1900, to March 9, 1902.<sup>3</sup>  
 EUGENE S. SULLIVAN, from March 10 to March 17, 1902.  
 JOHN J. LEAHY, from March 21, 1902, to March 1, 1906.  
 ISAAC ROSNOSKY, from March 10, 1902, to present time.  
 JOSEPH J. NORTON, from March 1, 1906, to present time.  
 JAMES P. LENNON, from March 1, 1906, to present time.

*Chief Clerk (and Secretary to September 10, 1906).*

WALTER E. SWAN.

*Secretary (from September 10, 1906).*

JOHN J. FENENO.

<sup>1</sup>Under chapter 449 of the Acts of 1895 the Boston Water Board was abolished, and the Water Supply and Water Income Departments consolidated and placed under the charge of one Water Commissioner.

\* Deceased.

<sup>2</sup> Died in office.<sup>3</sup> Resigned.

*General Superintendent Income Division.*

JOS. H. CALDWELL.

*In charge of Distribution Division.*

Assistant Commissioner JAMES P. LENNON (from March 1, 1906).

*City Engineer and Engineer of the Department.*

WILLIAM JACKSON.









